

# RCA REFERENCE BOOK 1956

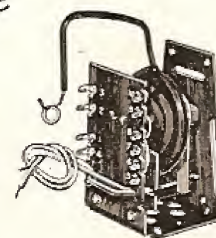
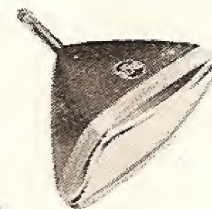
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Marca Registrada

*A compendium of  
valuable information on  
RCA Receiving Tubes,  
Picture Tubes,  
Cathode-Ray and Power  
Tubes, Batteries, Service  
Parts, Test and  
Measuring Equipment,  
Electronic Components,  
and Semiconductor  
Devices.*



*A diary for 1956.*

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**RADIO CORPORATION OF AMERICA**  
*Tube Division* *Harrison, N. J.*

Printed in the United States of America



# RCA RECEIVING TUBE CHART

Miniature, Metal, GT, and other Receiving Types

Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance mhos	Amplification Factor	Load for Stated Power Output Watts
			C.T.	Volts									
00-A	Detector Triode	D12	D.C. F	5.0	0.25	Grid-Leak Detector	45	Grid Return to (-) Filament	1.5	30000	666	20	—
01-A	Detector-★ Amplifier	D12	D.C. F	5.0	0.25	Class A Amplifier	90 135	— 4.5 — 9.0	2.5 3.0	11000 10000	725 800	8.0 8.0	—
0Y4	Half-Wave Gas Rectifier	B2	Cold	—	—	Rectifier	—	—	—	—	—	—	—
0Z4	Full-Wave Gas Rectifier	B2	Cold	—	—	Rectifier	—	—	—	—	—	—	—
0Z4-G	Full-Wave Gas Rectifier	B1a	Cold	—	—	Rectifier	—	—	—	—	—	—	—
1A3	HF Diode	B3	5AP1	H	1.4	0.15	Detector Rectifier	Max. Peak Inverse Plate Volts, 330 Max. Peak Plate Ma., 5	—	—	—	—	—
1A4-P	Remote-Cutoff Pentode	D9	D.C. F	2.9	0.06	Amplifier	85 90	— 4.5 — 4.5	0.7 0.8	300000 300000	800 850	—	25000 25000
1A5-GT	Power Amplifier Pentode	C2b	D.C. F	1.4	0.05	Class A Amplifier	135 180	— 3.0 — 3.0	0.25 0.25	400000 500000	—	—	0.100 0.115
1A6	Pentagrid Converter a	D3	D.C. F	2.0	0.06	Converter	90	0	0.7	600000	—	—	—
1A7-GT	Pentagrid Converter a	C3	D.C. F	1.4	0.05	Converter	30 45	— 2 — 3	0.1 0.2	200000 170000	450 600	—	50000 40000
1AC5	Power Pentode	A	6CP	F	1.25	0.04	Class A Amplifier	67.5 67.5	0.4 0.4	150000 150000	750 750	—	0.005 0.050
1AD5	Sharp-Cutoff Pentode	A	8CP1	F	1.25	0.04	Class A Amplifier	30 45	0.16 0.35	700000 700000	430 580	—	—
1B3-GT	Half-Wave Rectifier	D2	C	F	1.25	0.2	Half-Wave Rectifier	67.5 67.5	0.75 1.85	700000 700000	735	—	—

Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance mhos	Amplification Factor	Load for Stated Power Output Watts
1B4-P	RF Amplifier Pentode	D9	D.C. F	2.0	0.06	Amplifier	35 45	— 4.5 — 9.0	0.3 1.0	300000 200000	650 925	20000 12000
1B5/2S	Duplex-Diode Triode	D5	D.C. F	2.0	0.06	Triode Unit as Amplifier	90	0	4.5	1.3	1.5	350000
1B7-GT	Pentagrid Converter a	C3	D.C. F	1.4	0.10	Converter	83 99	— 7.0 — 7.5	0.8 0.8	110000 115000	1500 1550	9000 8000
1C5-GT	Power Amplifier Pentode	C2b	D.C. F	1.4	0.10	Class A Amplifier	90	— 3.0	67.5	2.0	1.3	700000
1C6	Pentagrid Converter a	D3	D.C. F	2.0	0.12	Converter	135 180	— 3.0 — 3.0	0.75 0.75	600000 600000	720 750	—
1C7-G	Pentagrid Converter a	D8	D.C. F	2.0	0.12	Converter	135 180	— 3.0 — 3.0	0.75 0.75	600000 600000	720 750	—
1D5-GP	Remote-Cutoff Pentode	D8	D.C. F	2.0	0.06	Class A Amplifier	90	— 3.0	67.5	0.9	2.2	1.0
1D5-GT	Remote-Cutoff Pentode	D8	D.C. F	2.0	0.06	Class A Amplifier	90	— 3.0	67.5	0.9	2.2	1.0
1D7-G	Pentagrid Converter a	D8	D.C. F	2.0	0.06	Converter	135 180	— 3.0 — 3.0	0.75 0.75	600000 600000	720 750	—
1D8-GT	Diode-Triode-Power Amplifier Pentode	C2b	D.C. F	1.4	0.10	Pentode Unit as Class A Amplifier	90	— 3.0	67.5	2.0	1.3	700000
1E5-GP	RF Amplifier Pentode	D8	D.C. F	2.0	0.06	Class A Amplifier	90	— 3.0	67.5	0.7	1.0	1.0
1E7-GT	Twin-Pentode Power Amplifier	C2b	D.C. F	2.0	0.24	Class A Amplifier	135	— 7.5	135	—	—	—
1E8	Pentagrid Converter a	A	8CP	F	1.25	0.04	Converter	20 45 67.5	0.3 1.1 1.5	300000 400000 400000	650 650 650	24000 24000
1F4	Power Amplifier Pentode	D12	D.C. F	2.0	0.12	Amplifier	90 135	— 3.0 — 4.5	0.7 0.7	240000 240000	1400 1700	20000 16000
1F5-G	Power Amplifier Pentode	D10	D.C. F	2.0	0.12	Class A Amplifier	90 135	— 3.0 — 4.5	0.7 0.7	240000 240000	1400 1700	20000 16000
1F6	Duplex-Diode Pentode	D9	D.C. F	2.0	0.06	Pentode Unit as RF Amplifier	180	— 1.5	67.5	0.7	2.2	1.0
1F7-G	Duplex-Diode Pentode	D3	D.C. F	2.0	0.06	Triode Unit as RF Amplifier	135	— 2.0	—	—	—	—
1G4-GT	Medium-Mu Triode	C2b	D.C. F	1.4	0.05	Class A Amplifier	90	— 6.0	—	—	—	—
1G5-G	Power Amplifier Pentode	D10	D.C. F	2.0	0.12	Class A Amplifier	90 135	— 6.0 — 13.5	0.7 0.7	240000 240000	1400 1700	20000 16000

Discontinued types are shown in light face.



Type	Name	Tube Dimensions Connections and Socket	Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load Impedance Output Ohms	Power Output Watts
			C. T.	Volts											
1G6-GT	Twin-Triode Amplifier	C2b	D.C. F	1.4	0.10	Class B Amplifier	90	0	—	—	Power Output is for one tube at stated plate-to-plate load.	850	9.3	12000	0.350
1H4-G	Detector* Amplifier	D3	D.C. F	2.0	0.06	Class A Amplifier	90	-4.5	—	2.5	11000	900	9.3	—	—
1H5-GT	Diode	C3	D.C. F	1.4	0.05	Class A Amplifier	135	-9.0	—	3.0	10300	900	9.3	—	—
1H6-G	Diode-Mu Triode	D3	D.C. F	2.0	0.06	Class A Amplifier	180	-13.5	—	3.1	10300	900	9.3	8000	2.1
1J5-G	Power Pentode	D10	D.C. F	2.0	0.12	Class A Amplifier	135	-16.5	135	2.0	105000	950	20	13500	0.45
1J6-G	Twin-Triode Amplifier	C10	D.C. F	2.0	0.24	Class B Amplifier	135	0	—	—	Power Output is for one tube at stated plate-to-plate load.	925	—	10000	2.1
1L4	RF Amplifier Pentode	B0	D.C. F	1.4	0.05	Class A Amplifier	90	0	67.5	1.2	60000	1025	—	10000	1.9
1L6	Pentagrid Converter a	B0	D.C. F	1.4	0.05	Converter	90	0	45	0.6	650000	—	65	—	—
1L44	Power Amplifier Pentode	B5	D.C. F	1.4	0.05	Amplifier	90	0	45	0.6	750000	—	—	—	—
1LA6	Pentagrid Converter a	B5	D.C. F	1.4	0.05	Converter	90	0	45	0.6	750000	—	—	—	—
1LB4	Power Amplifier Pentode	B5	D.C. F	1.4	0.05	Class A Amplifier	45	0	45	0.35	1.10	700000	250	—	—
1L05	Sharp-Cutoff Pentode	B5	D.C. F	1.4	0.05	Class A Amplifier	90	0	45	0.30	1.15	1.05	775	—	—
1LC6	Pentagrid Converter a	B5	D.C. F	1.4	0.05	Converter	45	0	35	0.75	0.70	300000	—	—	—
1LD5	Diode-Pentode	B5	D.C. F	1.4	0.05	Pentode Unit as Class A Amplifier	90	0	35	0.70	0.75	650000	—	—	—
1LE3	Medium-Mu Triode	B5	D.C. F	1.4	0.05	Class A Amplifier	90	-3	—	—	—	—	—	—	—
1LG5	Remote-Cutoff Pentode	B5	D.C. F	1.4	0.05	Class A Amplifier	90	-1.5	90	0.9	3.7	500000	1150	—	—

For other characteristics, refer to Type 1A5-GT.

For other characteristics, refer to Pentode Unit of Type 1D8-GT.

For other characteristics, refer to Type 1H5-GT.														
1LH4	Diode High-Mu Triode Sharp-Cutoff Pentode	B5	D.C. F	1.4	0.05	Triode Unit as Class A Amplifier	90	0	90	0.35	1.6	1.15	800	—
1LN5	Sharp-Cutoff Pentode	B5	D.C. F	1.4	0.05	Class A Amplifier	90	0	90	0.3	1.2	1.55	750	—
1N5-GT	Sharp-Cutoff Pentode	C3	D.C. F	1.4	0.05	Class A Amplifier	90	—	4.5	90	0.7	3.4	300000	800
1N6-G	Diode—Power Amplifier Pentode	D1	D.C. F	1.4	0.05	Pentode Unit as Class A Amplifier	90	0	90	0.7	2.3	800000	750	25000 0.1
1P5-GT	Remote-Cutoff Pentode	C3	D.C. F	1.4	0.05	Class A Amplifier	90	0	90	0.7	2.3	800000	750	—
1Q5-GT	Beam Power Tube	C2b	D.C. F	1.4	0.1	Class A Amplifier	90	—	4.5	90	1.3	9.5	90000	2200
1R5	Pentagrid Converter	B0	D.C. F	1.4	0.05	Converter	45	0	45	1.9	0.7	600000	Grid #1 Resistor, 100000 ohms.	—
1S4	Power Amplifier Pentode	B0	D.C. F	1.4	0.1	Class A Amplifier	45	—	4.5	67.5	3.2	1.6	600000	Conversion Transcond., 300 umhos.
1S5	Diode-Pentode	B0	D.C. F	1.4	0.05	Pentode Unit as AF Amplifier	90	—	7.0	67.5	0.8	3.8	100000	1250
1T4	Remote-Cutoff Pentode	B0	D.C. F	1.4	0.05	Class A Amplifier	90	0	45	0.7	1.7	350000	700	8000 0.065
1T5-GT	Beam Power Tube	C2b	D.C. F	1.4	0.05	Class A Amplifier	90	—	6.0	90	0.8	6.5	250000	1150
1T6	Diode- Pentode	A	F	1.25	0.04	Pentode Unit as Class A Amplifier	30	0	30	0.10	0.33	500000	330	0.17
1U4	Sharp-Cutoff Pentode	B0	D.C. F	1.4	0.05	Class A Amplifier	45	0	45	0.21	0.75	500000	475	—
1U5	Diode-Pentode	B0	D.C. F	1.4	0.05	Class A Amplifier	67.5	0	67.5	0.4	1.6	400000	600	—
1-V	Half-Wave Rectifier	D3	H	6.3	0.3	With Capacitive- Input Filter	Max. DC Output Ma., 45	Max. Peak Inverse Plate Volts, 7500	Max. AC Plate Volts (RMS), 325	Min. Total Effective Plate Supply Impedance, Up to 117 volts, 0 ohms; at 150 volts, 30 ohms; at 325 volts, 75 ohms.	—	—	—	—
1V2	Half-Wave Rectifier	B0a	F	0.625	0.3	Pulsed Rectifier	Max. DC Output Ma., 10	Max. Peak Inverse Plate Volts, 2500	Max. AC Plate Volts (RMS), 325	Min. Total Effective Plate Supply Impedance, Up to 117 volts, 0 ohms; at 150 volts, 30 ohms; at 325 volts, 75 ohms.	—	—	—	—
1X2-A	Half-Wave Rectifier	B4	F	1.25	0.2	Half-Wave Rectifier	Max. DC Output Ma., 10	Max. Peak Inverse Plate Volts, 2500	Max. AC Plate Volts (RMS), 325	Min. Total Effective Plate Supply Impedance, Up to 117 volts, 0 ohms; at 150 volts, 30 ohms; at 325 volts, 75 ohms.	—	—	—	—
1X2-B	Half-Wave Rectifier	D4	F	1.25	0.2	Pulsed-Rectifier in Sensing Systems of TV Receivers	Max. DC Output Ma., 10	Max. Peak Inverse Plate Volts, 2500	Max. AC Plate Volts (RMS), 325	Min. Total Effective Plate Supply Impedance, Up to 117 volts, 0 ohms; at 150 volts, 30 ohms; at 325 volts, 75 ohms.	—	—	—	—
2A3	Power Amplifier Triode	E3	F	2.5	2.5	Class A Amplifier	250	—45.0	—	—	60.0	800	5250	4.2
2A4-G	Glow-Discharge Triode	D3	D.C. F	2.5	2.5	Relay Service	300	Cath. Bias, 780 ohms	—	—	80.0	—	—	—
Max. Average Plate Ma., 0.5														
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Discontinued types are shown in light face.



Type	Name	Dimensions and Socket Connections	Tube	Cathode Type and Rating	Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) ohms	Amplification Factor	Load for Static Power Output Ohms	Power Output Watts
2A5	Power Amplifier Pentode	D12	6B	H	1.75	80	0	—	—	—	—	—	—	—	—
2A6	Duplex-Diode High-Mu Triode	D9	6B	H	2.5	100	0	90	0.5	1.5	2270	6600	15	—	—
2A7	Pentagrid Converter	D9	7C	H	2.5	100	0	90	0.5	1.5	2130	7500	16	—	—
2AF4-A	UHF Oscillator Triode	B0	70K	H	2.35	100	0	—	—	—	—	—	—	—	—
2E7	Duplex-Diode Pentode	D9	7D	H	2.5	100	0	—	—	—	—	—	—	—	—
2E5	Electron-Ray Tube	D5	8R	H	2.5	100	0	—	—	—	—	—	—	—	—
3A2	Half-Wave Rectifier	B4	90T	H	3.15	0.22	—	—	—	—	—	—	—	—	—
3A3	Half-Wave Rectifier	D2	8E2	H	3.15	0.22	—	—	—	—	—	—	—	—	—
3AB-GT	Diode-Triode RF Amplifier Pentode	D8	8AS	D.C. F	1.4	90	0	—	—	—	—	—	—	—	—
3AL5	Twin-Diode	A1	6BT	H	3.15	0.6	—	—	—	—	—	—	—	—	—
3AU6	Sharp-Cutoff Pentode	B0	70K4	H	3.15	0.6	—	—	—	—	—	—	—	—	—
3AV6	Twin-Diode High-Mu Triode	B0	70T	H	3.15	0.6	—	—	—	—	—	—	—	—	—
3B2	Half-Wave Rectifier	E1a	26	H	3.15	0.22	—	—	—	—	—	—	—	—	—
3BC5	Sharp-Cutoff Pentode	B0	70D	H	3.15	0.6	—	—	—	—	—	—	—	—	—
3BY6	Pentagrid Amplifier	B0	70H	H	3.15	0.6	—	—	—	—	—	—	—	—	—

For other characteristics, refer to Type 6F6-G.

For other characteristics, refer to Type 6SQ7.

For other characteristics, refer to Type 6A8

Grid Bias Res., -4  
Grid Res., 10000 ohms  
Useful Power Output, 160 milliwatts

For other characteristics, refer to Type 6B8-G.

For other characteristics, refer to Type 6E5.

Max. Peak Inverse Plate Volts, 18000

Max. Peak Plate Ma., 80

Max. Peak Inverse Plate Volts, 30000

Max. Peak Plate Ma., 80

Max. Peak Inverse Plate Volts, 25000

Max. Peak Plate Ma., 80

Max. Peak Inverse Plate Volts, 25000

Max. Peak Plate Ma., 80

Max. Peak Inverse Plate Volts, 25000

Max. Peak Plate Ma., 80

Max. Peak Inverse Plate Volts, 25000

Max. Peak Plate Ma., 80

3B26	Semiradiant-Cutoff Pentode	B0	70M	H	3.15	0.3	150	2.6	11	0.6	6180	—	—	Cath. Bias Res., 180 ohms
3CB6	Sharp-Cutoff Pentode	B0	70M	H	3.15	0.6	150	2.8	9.5	60000	6200	—	—	Cath. Bias Res., 180 ohms
3CF6	Sharp-Cutoff Pentode	B0	70M	H	3.15	0.6	150	2.8	9.5	60000	6200	—	—	Cath. Bias Res., 180 ohms
3LF4	Beam Tube	B5	6B	D.C. F	1.4	0.1	—	—	—	—	—	—	—	—
3Q4	Power Amplifier Pentode	B0	70A	D.C. F	1.4	0.1	—	—	—	—	—	—	—	—
3Q5-GT	Power Tube	C2b	G-2AP	D.C. F	1.4	0.1	—	—	—	—	—	—	—	—
354	Power Amplifier Pentode	B0	70A	D.C. F	1.4	0.1	—	—	—	—	—	—	—	—
3V4	Power Amplifier Pentode	B0	6B	D.C. F	1.4	0.1	—	—	—	—	—	—	—	—
4BQ7-A	Medium-Mu Triode	B0a	6A	H	4.2	0.6	150	2.8	9.5	60000	6200	—	—	Cath. Bias Res., 180 ohms
4BZ7	Medium-Mu Triode	B0a	6A	H	4.2	0.6	150	2.8	9.5	60000	6200	—	—	Cath. Bias Res., 180 ohms
5AM8	Diode—Sharp-Cutoff Pentode	B0a	27	H	4.7	0.6	150	2.7	11.5	—	7000	—	—	Cath. Bias Res., 120 ohms
5AN8	Medium-Mu Triode—Sharp-Cutoff Pentode	B0a	60A	H	4.7	0.6	150	2.8	9.5	30000	6200	—	—	Cath. Bias Res., 180 ohms
5AQ5	Beam Power Tube	B1	7B2	H	4.7	0.6	150	2.8	9.5	30000	6200	—	—	Cath. Bias Res., 180 ohms
5AS4	Full-Wave Rectifier	E3a	G-5T1	H	4.7	3.0	150	2.8	9.5	30000	6200	—	—	Cath. Bias Res., 180 ohms
5AS8	Diode—Sharp-Cutoff Pentode	B0a	60B	H	4.7	0.6	150	2.8	9.5	30000	6200	—	—	Cath. Bias Res., 180 ohms
5AT8	Triode—Pentode Converter	B0a	9AK	H	4.7	0.45	150	2.8	9.5	30000	6200	—	—	Cath. Bias Res., 180 ohms

For other characteristics, refer to Type 3Q5-GT.

For other characteristics, refer to Type 3V4

Max. AC Volts per Plate (RMS), 550

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Max. AC Volts per Plate (RMS), 550

Discontinued types are shown in light face.



Type	Name	Tube Dimensions and Socket Connections		Cathode Type and Rating		Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load Impedance Ohms	Power Output Watts
		Diag.	S.C.	C.T.	F											
5A24	Full-Wave Rectifier	62a	5T	F	5.0	2.0	100	Cath. Res. 220 ohms, both units	220	—	8.5	7100	5300	38	—	—
5J6	Medium-Mu Twin-Triode	80	70F	H	4.7	0.6	150	— 10	Cath. Res., 220 ohms, both units	30	—	Grid Current, 16 Ma. Driving Power, 0.35 Watt	—	—	—	3.5
5T4	Full-Wave Rectifier	5T	F	5.0	2.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 450	Max. DC Output Ma., 225	Max. DC Output Ma., 225	Max. DC Output Ma., 225	Max. DC Output Ma., 225	Max. DC Output Ma., 225	Min. Total Effect. Supply Imped. per Plate, 150 ohms	—	—	—
						With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 550	Max. DC Output Ma., 275	Max. DC Output Ma., 275	Max. DC Output Ma., 275	Max. DC Output Ma., 275	Max. DC Output Ma., 275	Min. Value of Input Choke, 3 henries	—	—	—
5U4-G	Full-Wave Rectifier	E2	G-5T1	F	5.0	3.0	Max. AC Volts per Plate (RMS), 450	Max. DC Output Ma., 225	Max. DC Output Ma., 225	Max. DC Output Ma., 225	Max. DC Output Ma., 225	Max. DC Output Ma., 225	Min. Total Effect. Supply Imped. per Plate, 170 ohms	—	—	—
						With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 550	Max. DC Output Ma., 275	Max. DC Output Ma., 275	Max. DC Output Ma., 275	Max. DC Output Ma., 275	Max. DC Output Ma., 275	Min. Value of Input Choke, 10 henries	—	—	—
5U4-GB	Full-Wave Rectifier	D12a	G-5T1	H	5.0	3.0	Max. AC Volts per Plate (RMS), 550	Max. DC Output Ma., 300	Max. DC Output Ma., 300	Max. DC Output Ma., 300	Max. DC Output Ma., 300	Max. DC Output Ma., 300	Min. Total Effect. Supply Imped. per Plate, 97 ohms	—	—	—
						With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 550	Max. DC Output Ma., 275	Max. DC Output Ma., 275	Max. DC Output Ma., 275	Max. DC Output Ma., 275	Max. DC Output Ma., 275	Min. Value of Input Choke, 10 henries	—	—	—
5U8	Triode-Remote-Cutoff Pentode	80a	8AE	H	4.7	0.6	150	Cath. Bias	—	—	18	5000	8500	40	Cath. Res., 56 ohms	—
5V4-G	Full-Wave Rectifier	D10	G-4L1	H	5.0	2.0	Max. AC Volts per Plate (RMS), 375	Max. DC Output Ma., 175	Max. DC Output Ma., 175	Max. DC Output Ma., 175	Max. DC Output Ma., 175	Max. DC Output Ma., 175	Min. Total Effect. Supply Imped. per Plate, 100 ohms	—	—	—
						With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 500	Max. DC Output Ma., 525	Max. DC Output Ma., 525	Max. DC Output Ma., 525	Max. DC Output Ma., 525	Max. DC Output Ma., 525	Min. Value of Input Choke, 4 henries	—	—	—
5W4	Full-Wave Rectifiers	C2	F	5.0	1.5	1.5	Max. AC Volts per Plate (RMS), 350	Max. DC Output Ma., 100	Max. DC Output Ma., 100	Max. DC Output Ma., 100	Max. DC Output Ma., 100	Max. DC Output Ma., 100	Min. Total Effect. Supply Imped. per Plate, 50 ohms	—	—	—
						With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 500	Max. DC Output Ma., 300	Max. DC Output Ma., 300	Max. DC Output Ma., 300	Max. DC Output Ma., 300	Max. DC Output Ma., 300	Min. Value of Input Choke, 6 henries	—	—	—
5W4-GT	Full-Wave Rectifier	C5	G-5T1	F	5.0	3.0	Max. AC Volts per Plate (RMS), 500	Max. DC Output Ma., 100	Max. DC Output Ma., 100	Max. DC Output Ma., 100	Max. DC Output Ma., 100	Max. DC Output Ma., 100	Min. Value of Input Choke, 6 henries	—	—	—
5X4-G	Full-Wave Rectifier	E2	G-5Q	F	5.0	3.0	150	Cath. Resistor, 2700 ohms	2700	—	—	Grid Current, 13 Ma. Power Output (Approx.), 0.5 Watt	—	—	—	—
5X8	Triode-Pentode Converter	80a	8AX	H	4.7	0.6	150	Grid Resistor, 2700 ohms	2700	—	—	Grid Current, 13 Ma. Power Output (Approx.), 0.5 Watt	—	—	—	—
						With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 375	Max. DC Output Ma., 175	Max. DC Output Ma., 175	Max. DC Output Ma., 175	Max. DC Output Ma., 175	Max. DC Output Ma., 175	Min. Total Effect. Supply Imped. per Plate, 100 ohms	—	—	—
For other ratings, refer to Type 5U4-G.																
One Volt at Mixer Grid No. 1 (RMS), 2.6 Mixer Grid No. 1 Supply Volts, -3.5 Conversion Transconductance, 2100 umhos																

5Y3-G	Full-Wave Rectifier	D10	G-5T1	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 350	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Min. Total Effect. Supply Imped. per Plate, 50 ohms	—	—	—
5Y3-GT	Full-Wave Rectifier	C5	G-5T1	With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 500	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Min. Value of Input Choke, 10 henries	—	—	—
5Y4-G	Full-Wave Rectifier	D10	G-5Q	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 350	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Min. Total Effect. Supply Imped. per Plate, 50 ohms	—	—	—
5Z3	Full-Wave Rectifier	E3	4C	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 350	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Min. Total Effect. Supply Imped. per Plate, 50 ohms	—	—	—
5Z4	Full-Wave Rectifier	C2	6L	With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 500	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Max. DC Output Ma., 125	Min. Value of Input Choke, 5 henries	—	—	—
6A3	Power Amplifier Triode	E3	4D	Amplifier	100	-6.5	100	1.6	9.0	81250	1200	—	11000	0.31
6A4/LA	Power Amplifier Pentode	D12	50	Class A Amplifier	180	-12.0	180	3.9	22.0	43500	2200	—	8000	1.40
6A6	Twin-Triode Amplifier	D12	7B	Amplifier	100	-6.5	100	1.6	9.0	81250	1200	—	11000	0.31
6A7	Pentagrid Converter	D9	7C	Converter	100	-6.5	100	1.6	9.0	81250	1200	—	11000	0.31
6A8	Pentagrid Converter	C1	8A	Converter	100	-6.5	100	1.6	9.0	81250	1200	—	11000	0.31
6A8-G	Pentagrid Converter	D8	G-8A1	Converter	100	-6.5	100	1.6	9.0	81250	1200	—	11000	0.31
6A8-GT	Pentagrid Converter	C3	GT-8A2	Converter	100	-6.5	100	1.6	9.0	81250	1200	—	11000	0.31
6AB4	High-Mu Triode	B0	5CE	Class A Amplifier	100	-6.5	100	1.6	9.0	81250	1200	—	11000	0.31
6AB5/6N5	Electron-Ray Indicator Tube	D4	6R	Visual Indicator	250	-12.0	180	3.9	22.0	43500	2200	—	8000	1.40
6AB7	Remote-Cutoff Pentode	B2	6N	Class A Amplifier	300	-3.0	200	3.2	12.5	70000	5000	—	10000	8.01
6AC5-GT	High-Mu Power Amplifier Triode	C20	G-5Q1	Class B Amplifier	250	-12.0	180	3.9	22.0	43500	2200	—	8000	1.40
6AC7	Sharp-Cutoff Pentode	B2	6N	Class A Amplifier	300	-3.0	200	3.2	12.5	70000	5000	—	10000	8.01
6AD6-G	Electron-Ray Tube	B5a	7A0	Visual Indicator	250	-12.0	180	3.9	22.0	43500	2200	—	8000	1.40

Discontinued types are shown in light face.



Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-Plate) millimhos	Amplification Factor	Load Impedance Power Output Ohms	Power Output Watts
6AD7-G	Triode-Power Amplifier Pentode	D10	6.3	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier Pentode Unit With 6B6-G as Push-Pull Class AB <sub>1</sub> Amplifier	250	-25.0	—	—	3.7	19000	325	6	—	—
6AE5-GT	Amplifier Triode	C5	6.3	Class A Amplifier	250	-16.5	250	6.5	34.0	80000	2500	—	7000	3.2
6AE6-G	Triode-Plate Control Tube	D3	6.3	Remote Cutoff Triode	375	Cath. Bias	250	6.7	41.0	Cathode-Bias Resistor, 470 ohms	—	—	16000	9.0
6AE7-GT	Triode-Input Triode Amplifier	C2b	6.3	Class A Amplifier Remote Cutoff Triode	250	-15.0	—	—	7.0	3500	1200	4.2	—	—
6AF4	UIF Oscillator Triode	B0	6.3	Driver for Push-Pull 6AC5-GT in Dynamic-Coupled Amplifier	250	-1.5	—	—	6.5	35000	1000	25	—	—
6AF4-A	Medium-Mu Triode	A1	6.3	Class A Amplifier	250	-35.0	—	—	4.5	35000	950	33	—	—
6AF6-G	Electron-Ray Tube Indicator Type	B0c	6.3	Class A Amplifier	250	-9.5	—	—	10.0	4650	3000	14	—	—
6AG5	Sharp-Cutoff Pentode	B0	6.3	Class A Amplifier	250	-13.5	—	—	28.0	—	—	—	—	—
6AG7	Power Pentode	C2	6.3	Class A Amplifier	300	-2.0	—	—	28.0	—	—	—	—	—

For other characteristics, refer to type 6AF4

Target Voltage, 125 volts. Control-Electrode Voltage, 0 volts; Shadow Angle, 95°; Target Current, 0.45 ma. Control-Electrode Voltage, 80 volts; Angle, 0°.

Target Voltage, 250 volts. Control-Electrode Voltage, 0 volts; Shadow Angle, 95°; Target Current, 2.2 ma. Control-Electrode Voltage, 160 volts; Angle, 0°.

100 Cath. 100 1.4 4.5 60000 4500 Cath. Bias Res., 180 ohms  
250 Bias 150 2.0 6.5 80000 5000 Cath. Bias Res., 180 ohms  
180 Cath. 7.0 8000 5700 Cath. Bias Res., 330 ohms  
250 Bias 5.5 10000 3800 Cath. Bias Res., 820 ohms  
Cathode-Bias Resistor, 57 ohms.  
Load Resistance, 3500 ohms.  
Peak-to-Peak Volts Output, 140 approx.

Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-Plate) millimhos	Amplification Factor	Load Impedance Power Output Ohms	Power Output Watts
6AH4-GT	Medium-Mu Triode	C2b	6.3	Vertical Deflection Amplifier in TV Receivers	300	—	150	2.5	10.0	50000	9000	—	Cath. Res., 160 ohms	—
6AH6	Sharp-Cutoff Pentode	D0	6.3	Class A Amplifier	300	—	150	2.5	10.0	50000	9000	—	Cath. Res., 160 ohms	—
6AK5	Sharp-Cutoff Pentode	A1	6.3	Class A Amplifier	120	—	120	2.5	7.5	300000	5000	—	Cath. Res., 180 ohms	—
6AK6	Power Amplifier Pentode	D0	6.3	Class A Amplifier	180	—	180	2.5	15	20000	2300	—	10000	1.1
6AL5	Twin Diode	A1	6.3	Detector Rectifier	180	—	180	2.5	15	20000	2300	—	10000	1.1
6AL7-GT	Electron-Ray Tube Indicator Type	C0a	6.3	Visual Indicator	180	—	180	2.5	15	20000	2300	—	10000	1.1
6AM3	Diode—Sharp-Cutoff Pentode	D0a	6.3	Diode Unit	200	—	150	2.7	11.5	—	7000	—	Cath. Res., 120 ohms	—
6AN8	Triode—Sharp-Cutoff Pentode	D0a	6.3	Triode Unit as Class A Amplifier	200	—	150	2.7	11.5	—	7000	—	Cath. Res., 120 ohms	—
6AQ5	Beam Power Tube	D1	6.3	Single Tube Push-Pull Class AB <sub>1</sub> Amplifier	250	—	150	2.8	9.5	300000	6200	—	Cath. Res., 180 ohms	—
6AQ6	Twin-Diode High-Mu Triode	D0	6.3	Triode Unit as Class A Amplifier	250	—	150	2.8	9.5	300000	6200	—	Cath. Res., 180 ohms	—
6AQ7-GT	Twin-Diode High-Mu Triode Power	C2b	6.3	Triode Unit as Class A Amplifier	250	—	150	2.8	9.5	300000	6200	—	Cath. Res., 180 ohms	—
6AR5	Beam Power Tube	B1	6.3	Single Tube Push-Pull Class AB <sub>1</sub> Amplifier	250	—	150	2.8	9.5	300000	6200	—	Cath. Res., 180 ohms	—
6AS5	Low-Mu Twin Power Triode	B1	6.3	Triode Unit as Class A Amplifier	250	—	150	2.8	9.5	300000	6200	—	Cath. Res., 180 ohms	—
6AS7-G	Low-Mu Twin Power Triode	E2	6.3	Triode Unit as Class A Amplifier	250	—	150	2.8	9.5	300000	6200	—	Cath. Res., 180 ohms	—
6AS8	Sharp-Cutoff Pentode	D0a	6.3	Triode Unit as Class A Amplifier	250	—	150	2.8	9.5	300000	6200	—	Cath. Res., 180 ohms	—
6AT6	Twin-Diode High-Mu Triode	B0	6.3	Triode Unit as Class A Amplifier	250	—	150	2.8	9.5	300000	6200	—	Cath. Res., 180 ohms	—

Discontinued types are shown in light face.



RCA Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current mA	Plate Current mA	AC Plate Resistance Ohms	Transconductance (Grid-plate) umhos	Amplification Factor	Load per Stage Output Ohms	Power Output Watts
6AT8	Triode-Pentode Converter	B9a	H 6.3	Triode Unit as 250-Mc. Oscillator Pentode Unit as Mixer	150	Grid Resistor, 2700 ohms Grid Current, 3.6 Ma. Grid-No. 2 Volts, 150 Mixer Grid-No. 1 Supply Volts, -3.5 Plate Current, 6.2 Ma. Max. Peak Inverse Plate Volts, 4500 (Absolute) Max. Peak Plate Ma., 1050 Max. Peak Inverse Plate Volts, 4500 (Absolute) Max. Peak Plate Ma., 1150	—	—	—	—	—	—	Plate Current, 13 ma. Power Output (Approx.), 0.5 watt Osc. Volts at Mixer Grid-No. 1 (RMS), 2.6 Mixer Grid-No. 1 Resistor, 120000 ohms Conversion Transconductance, 2100 umhos Max. Average Plate Ma., 175. Max. Plate Dissipation, 6.0 Watts	—
6AU4-GT	Half-Wave Rectifier	C10a	H 6.3	Television Damping Service	—	—	—	—	—	—	—	—	—	—
6AU4-GTA	Half-Wave Rectifier	C10b	H 6.3	Television Damping Service	—	—	—	—	—	—	—	—	—	—
6AU5-GT	Beam Power Tube	C2b	H 6.3	Horizontal Deflection Amplifier in TV Receivers	—	—	—	—	—	—	—	—	—	—
6AU6	Sharp-Cutoff Pentode	B0	H 6.3	Class A Amplifier	100 Cath. 250 Bias	—	100 Cath. 150 Bias	2.1 4.3	5.0 10.6	500000 1.0g	3000 3200	—	Cath. Bias Res., 150 ohms Cath. Bias Res., 68 ohms	—
6AU7	Medium-Mu Twin-Triode	B0a	H 6.3	Class A Amplifier	100 Cath. 250 Bias	—	100 Cath. 150 Bias	—	13 10.5	6300 7950	3500 2200	22 17.5	—	—
6AV5-GT	Beam Power Tube	C2b	H 6.3	Horizontal Deflection Amplifier in TV Receivers	—	—	—	—	—	—	—	—	—	—
6AW8	High-Mu Triode-Sharp-Cutoff Pentode	B3	H 6.3	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier	200 Cath. 200 Bias	-2 Cath. Bias	— 150	— 3.5	4 13	17500 400000	4000 9000	70 —	Cath. Res., 180 ohms	—
6AV6	Twin-Diode High-Mu Triode	B0	H 6.3	Triode Unit as Class A Amplifier	250 Cath. 250 Bias	-1.0 -2.0	—	—	9.5 1.2	80000 62500	1250 1600	100 100	—	—
6AX4-GT	Half-Wave Rectifier	C2b	H 6.3	Television Damping Service	—	—	—	—	—	—	—	—	—	—
6AX5-GT	Full-Wave Rectifier	C2b	H 6.3	With Capacitive-Input Filter With Inductive-Input Filter	—	—	—	—	—	—	—	—	—	—
6AZ8	Medium-Mu Triode-Semi-remote-Cutoff Pentode	B0a	H 6.3	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier	200 Cath. 200 Bias	-6 Cath. Bias	— 150	— 3	9.5	5750 300000	3300 6000	19 —	Cath. Res., 180 ohms	—

6B4-G	Power Amplifier Triode	E2	F 6.3	Class A Amplifier Push-Pull Class AB <sub>1</sub> Amplifier	250 Cath. Bias, 950 ohms 325 Cath. Bias, fixed bias	-45.0 Cath. Bias, -68 volts, fixed bias	—	—	60.0	800	5250	4.2	2500	3.20
6B5	Direct-Coupled Power Amplifier	D12	H 6.3	Class A Amplifier	—	—	—	—	—	—	—	—	—	—
6B6-G	Twin-Diode High-Mu Triode	D8	H 6.3	Triode Unit as Class A Amplifier	—	—	—	—	—	—	—	—	—	—
6B7	Twin-Diode Remote-Cutoff Pentode	D9	H 6.3	Pentode Unit as Amplifier	—	—	—	—	—	—	—	—	—	—
6B8	Twin-Diode Pentode	C1	H 6.3	Pentode Unit as Amplifier	—	—	—	—	—	—	—	—	—	—
6B8-G	Twin Diode-Remote-Cutoff Pentode	D8	H 6.3	Triode Unit as Class A Amplifier	—	—	—	—	—	—	—	—	—	—
6BA6	Remote-Cutoff Pentode	B0	H 6.3	Class A Amplifier	100 Cath. 100 Bias	—	100 Cath. 100 Bias	4.4 4.2	10.8 11.0	250000 1.0	4300 4400	—	Cath. Bias Res., 68 ohms Cath. Bias Res., 68 ohms	—
6BA7	Pentagrid Converter A	B3	H 6.3	Converter	100 Cath. 250 Bias	-1.0 -1.0	100 Cath. 100 Bias	10.2 10.0	3.6 3.8	500000 1.0g	Grid-No. 1 Resistor, 20000 ohms Conversion Transconductance, 475 micromhos	—	—	—
6BC4	Medium-Mu Triode	A1b	H 6.3	Class A Amplifier	150 Cath. 150 Bias	—	—	—	14.5	4800	10000	48	Cath. Res., 100 ohms	—
6BC5	Sharp-Cutoff Pentode	B0	H 6.3	Class A Amplifier	250 Cath. 250 Bias	—	150 Cath. 150 Bias	2.1 7.5	800000	5700	—	—	Cath. Bias Res., 180 ohms	—
6BC7	Triple Diode	B0a	H 6.3	DC Restorer in Color TV	—	—	—	—	—	—	—	—	—	—
6BD4	Sharp-Cutoff Beam Triode	E0	H 6.3	Voltage-Control	—	—	—	—	—	—	—	—	—	—
6BD4-A	Sharp-Cutoff Beam Triode	E0	H 6.3	Voltage-Control	—	—	—	—	—	—	—	—	—	—
6BD6	Remote-Cutoff Pentode	B0	H 6.3	Class A Amplifier	100 Cath. 250 Bias	-1.0 -1.0	100 Cath. 100 Bias	5.0 3.0	13.0 9.0	150000 800000	2550 2000	—	—	—
6BE6	Pentagrid Converter A	B0	H 6.3	Converter	100 Cath. 250 Bias	-1.5 -1.5	100 Cath. 100 Bias	7.0 6.8	2.6 2.9	400000 1.0g	Grid #1 Resistor, 20000 ohms Conversion Transconductance, 475 micromhos	—	—	—
6BF5	Beam Power Tube	B1	H 6.3	Class A Amplifier	110 Cath. 110 Bias	-7.5 -7.5	110 Cath. 110 Bias	4.0 36.0	—	12000	7500	2500	1.9	—
6BF6	Twin-Diode Triode	B0	H 6.3	Vertical Deflection Amplifier in TV Receivers	—	—	—	—	—	—	—	—	—	—
6BG6-G	Beam Power Tube	F1	H 6.3	Horizontal Deflection Amplifier in TV Receivers	—	—	—	—	—	—	—	—	—	—

Discontinued types are shown in light face.



Type	Name	Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Volts	Grid Supply Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) milliamperes/volts	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
6BH6	Sharp-Cutoff Pentode	B0 7CM	H 6.3	Class A Amplifier	100 250	— 1.0 — 1.0	100 150	1.4 2.9	3.6 7.4	700000 4600	3400 4600	—	—	—
6BJ6	Remote-Cutoff Pentode	B0 7CM	H 6.3	Class A Amplifier	100 250	— 1.0 — 1.0	100 150	3.5 3.3	9.0 9.2	250000 3650	3650 3600	—	—	—
6BK4	Sharp-Cutoff Beam Triode	E2a 35	H 6.3	Voltage-Control	250	— 1.0	100	3.3	9.2	1.33	—	—	—	—
6BK5	Beam Power Tube	B3 35	H 6.3	Class A Amplifier	250	— 5	250	3.5	35	100000	8500	—	6500	3.5
6BK7-A	Medium-Mu Twin Triode	B8a 9AJ	H 6.3	Each Unit as Class A Amplifier	150	Cathode Bias Res., 56 ohms	—	—	18	4600	9300	43	Cutoff Volts, —11	—
6BL4	Half-Wave Rectifier	D8b 35	H 6.3	Television Damper Service	Max. Peak Inverse Plate Volts, 4500 (Abs.) Max. DC Plate Ma., 1200 Max. DC Plate Ma., 200	—	—	—	—	—	—	—	—	—
6BL7-GT	Medium-Mu Twin Triode	C2b 8BD	H 6.3	Vertical Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 500 Max. DC Cathode Ma. (Each Unit), 60	—	—	—	—	—	—	—	—	—
6BQ6-GT	Beam Power Tube	C11 6AM	H 6.3	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 550 Max. DC Cathode Ma., 110	—	—	—	—	—	—	—	—	—
6BQ7	Medium-Mu Twin Triode	B8a 9AJ	H 6.3	Each Unit as Class A Amplifier	150	Cathode Bias Res., 220 ohms	—	—	9.0	5800	6000	35	Cutoff Volts, —10	—
6BQ6-GT/6C06	Beam Power Tube	C11 6AM	H 6.3	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 600 Max. DC Cathode Ma., 112.5	—	—	—	—	—	—	—	—	—
6BQ7-A	Medium-Mu Twin Triode	D0a 9AJ	H 6.3	Each Unit as Class A Amplifier	150	Cathode Bias Res., 220 ohms	—	—	9.0	6100	6400	39	Cutoff Volts, —10	—
6BY5-GA	Full-Wave Rectifier	C11a 37	H 6.3	Television Damper Service	Max. Peak Inverse Plate Volts, 3000 (Abs.) Max. Peak Plate Ma., 525 Max. DC Plate Ma., 175	—	—	—	—	—	—	—	—	—
6BY6	Pentagrid Amplifier	B0 7CM	H 6.3	Syn. Separator and Sync. Clipper	10	0	25	3.5	1.4	—	—	—	—	—
6BZ6	Remote-Cutoff Pentode	D0 7CM	H 6.3	Class A Amplifier	200	Cath. Bias, 220 ohms	150	2.6	11	0.6	6100	38	Cutoff Volts, —11	—
6BZ7	Medium-Mu Twin Triode	B8a 9AJ	H 6.3	Each Unit as Class A Amplifier	150	Cathode Bias Res., 220 ohms	—	—	10	5600	6800	38	Cutoff Volts, —11	—

6C4	HF Power Triode	B0 6BG	H 6.3	Class A Amplifier	100 250	0 — 8.5	—	—	11.8 10.5	6250 7700	3100 2200	19.5 17	—	—
6C5	Medium-Mu Triodes	B2 6Q C3 6T40-G	H 6.3	Class A Amplifier	300 250	— 27.0 — 8.0	—	—	25.0 8.0	Grid Current, 7 ma. Driving Power, 0.35 watt	—	—	5.5	—
6C6	Sharp-Cutoff Pentode	D13 8F	H 6.3	Class A Amplifier	250	— 8.0	—	—	—	Grid Resistor, * * 0.25 megohm. Cath. Bias, 5300 ohms. —17.0 approx. Plate current to be adjusted to 0.2 milliamperes with no signal.	2000	20	—	—
6C7	Twin-Diode Triode	D9 7G	H 6.3	Triode Unit as Class A Amplifier	250	— 9.0	—	—	4.5	16000	1250	20	—	—
6C8-G	Twin-Triode Amplifier	D8 6AQ	H 6.3	Each Unit as Amplifier	250	— 4.5	—	—	3.2	22500	1600	36	—	—
6CB5	Beam Power Tube	E0a 30	H 6.3	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 700 Max. DC Plate Ma., 200	—	—	—	—	Max. Peak Inverse Plate Volts, 6800 (Abs.) Max. Plate Dissipation, 23 Watts	—	—	—	—
6CB6	Sharp-Cutoff Pentode	B0 7CM	H 6.3	Class A Amplifier	200	Cath. Bias, 150	150	2.8	9.5	600000	6200	Cath. Bias Res., 180 ohms	—	—
6CD6-G	Beam Power Tube	F1 5BT	H 6.3	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 700 Max. DC Plate Ma., 170	—	—	—	—	Max. Peak Positive-Pulse Plate Volts, 6000 Max. Plate Dissipation, 15 watts	—	—	—	—
6CF6	Sharp-Cutoff Pentode	B0 7CM	H 6.3	Class A Amplifier	200	— 6.5	150	2.8	9.5	600000	6200	Cath. Bias Res., 180 ohms	—	—
6CG7	Medium-Mu Twin Triode	B3 9AJ	H 6.3	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 300 Max. Peak Neg.-Pulse Grid Volts, 600	—	—	—	—	Max. Peak Cathode Ma., 300 Max. DC Cathode Ma., 20	—	—	—	—
6CL6	Power Pentode	B3 25	H 6.3	Vertical Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 300 Max. Peak Neg.-Pulse Grid Volts, 400	—	—	—	—	Max. Peak Cathode Ma., 70 Max. DC Cathode Ma., 20	—	—	—	—
6CM7	Medium-Mu Dual Triode With Isomolar Units	D3 31	H 6.3	Class A Amplifier	300	— 2	300	7.0	30.0	Load Resistor, 3000 ohms Peak-to-Peak Grid No. 1 Signal Volts, 3 Peak-to-Peak Output Volts, 132 approx.	—	—	—	—
6CS6	Pentagrid Amplifier	B0 7CM	H 6.3	Vertical Deflection Amplifier in TV Receivers	Unit No. 1: Max. DC Plate Volts, 500 Max. Peak Neg.-Pulse Grid Volts, 200	—	—	—	—	Max. Peak Cathode Ma., 70 Max. DC Cathode Ma., 15	—	—	—	—
6D6	Remote-Cutoff Pentode	D13 8F	H 6.3	Vertical Deflection Amplifier in TV Receivers	Unit No. 2: Max. DC Plate Volts, 500 Max. Peak Positive-Pulse Plate Volts, 2200 (Abs.)	—	—	—	—	Max. Peak Cathode Ma., 70 Max. Peak Neg.-Pulse Grid Volts, 200	—	—	—	—
6D7	Sharp-Cutoff Pentode	D13 7H	H 6.3	Syn. Separator and Sync. Clipper	10	0	30	4.1	1.2	Grid-No. 3 Volts = 0	—	—	—	—

Discontinued types are shown in light face.



Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Vols	Grid Bias Vols	Screen Supply Vols	Screen Current Ma	Plate Current Ma	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
6D8-G	Pentagrid Converter & Pentode	D8	6.3	Converter	135	-3.0	67.5	1.7	1.5	600000	Anode-Grid (x2): 250 $\mu$ max. v. 4.3 ma. Oscillator-Grid (x1) Resistor = 400000 Conversion Transcond., 350 micromhos.	—	—	—
6DC6	Semimute-Cutoff Pentode	B0	6.3	Class A Amplifier	250	-3.0	100	2.6	3.5	400000	Cath. Res., 180 ohms	—	—	—
6DE6	Sharp-Cutoff Pentode	B0	6.3	Class A Amplifier	200	—	150	3.0	9.0	500000	Cath. Res., 180 ohms	—	—	—
6E5	Electron-Ray Tube	D4	6.3	Visual Indicator	—	—	—	—	—	—	—	—	—	—
6E6	Twin-Triode Power Amplifier	D12	6.3	Class A Amplifier	180	-20.0	—	—	—	—	—	—	—	—
6E7	Remote-Cutoff Pentode	D13	6.3	Class A Amplifier	250	-27.5	—	—	—	—	—	—	—	—
6F5	High-Mu Triode	C1	6.3	Amplifier	—	—	—	—	—	—	—	—	—	—
6F5-GT	High-Mu Triode	C2b	6.3	Amplifier	250	-16.5	250	6.5	34.0	800000	For other characteristics, refer to Type 6SF5.	—	—	—
6F6	Power Pentodes	C2	7.5	Amplifier	250	-20.0	—	—	—	—	—	—	—	—
6F6-G	Power Pentodes	D10	6.3	Class A Amplifier	250	-20.0	—	—	—	—	—	—	—	—
6F6-GT	Power Pentodes	C10	7.5	Class A Amplifier	350	-38.0	—	—	—	—	—	—	—	—
6F7	Triode-Remote-Cutoff Pentode	D9	7E	Class A Amplifier	100	-3.0	100	1.6	6.3	290000	For other characteristics, refer to Type 6U7-G.	—	—	—
6F8-G	Twin-Triode Amplifier	D8	6.3	Class A Amplifier	250	-10.0	100	0.6	2.8	650000	For other characteristics, refer to Type 6SF5.	—	—	—

6G6-G	Power Amplifier Pentode	D3	6.3	Class A Amplifier	135	-6.0	135	2.0	11.5	170000	Max. AC Supply Vols per Plate (RMS), 150 Min. Total Effect. Plate-Supply Imped. per Plate = half-wave, 30 ohms; full-wave, 15 ohms.	—	—	—
6H6	Twin Diodes	A1a	7Q	Class A Amplifier	180	-9.0	180	2.5	15.0	175000	Max. DC Output Ma., 8 min.	—	—	—
6J5	Medium-Mu Triodes	B2	6Q	Class A Amplifier	150	-10.0	150	3.0	30.0	71000	Min. Total Effective Plate-Supply Impedance: up to 117 volts, 15 ohms; at 130 volts, 9 ohms.	—	—	—
6J5-GT	Medium-Mu Triodes	C3	6Q	Class A Amplifier	150	-10.0	150	3.0	30.0	71000	Max. DC Output Ma., 8 min.	—	—	—
6J6	Medium-Mu Triode	D0	7BF	Class A Amplifier	150	-10.0	150	3.0	30.0	71000	Max. DC Output Ma., 8 min.	—	—	—
6J7	Sharp-Cutoff Pentodes	C1	7R	Class A Amplifier	150	-10.0	150	3.0	30.0	71000	Max. DC Output Ma., 8 min.	—	—	—
6J7-G	Sharp-Cutoff Pentodes	D8	6.3	Class A Amplifier	150	-10.0	150	3.0	30.0	71000	Max. DC Output Ma., 8 min.	—	—	—
6J7-GT	Sharp-Cutoff Pentodes	C3	6.3	Class A Amplifier	150	-10.0	150	3.0	30.0	71000	Max. DC Output Ma., 8 min.	—	—	—
6K8-G	Triode-Heptode Converter	D8	6.3	Class A Amplifier	150	-10.0	150	3.0	30.0	71000	Max. DC Output Ma., 8 min.	—	—	—
6K5-GT	High-Mu Triode	C3	6.3	Class A Amplifier	150	-10.0	150	3.0	30.0	71000	Max. DC Output Ma., 8 min.	—	—	—
6K6-GT	Power Pentode	C2b	6.3	Class A Amplifier	150	-10.0	150	3.0	30.0	71000	Max. DC Output Ma., 8 min.	—	—	—
6K7	Remote-Cutoff Pentodes	C1	6.3	Class A Amplifier	150	-10.0	150	3.0	30.0	71000	Max. DC Output Ma., 8 min.	—	—	—
6K7-G	Remote-Cutoff Pentodes	D8	6.3	Class A Amplifier	150	-10.0	150	3.0	30.0	71000	Max. DC Output Ma., 8 min.	—	—	—
6K7-GT	Remote-Cutoff Pentodes	C3	6.3	Class A Amplifier	150	-10.0	150	3.0	30.0	71000	Max. DC Output Ma., 8 min.	—	—	—
6K8	Triode-Heptode Converters	D8	6.3	Class A Amplifier	150	-10.0	150	3.0	30.0	71000	Max. DC Output Ma., 8 min.	—	—	—
6K8-G	Triode-Heptode Converters	C10	6.3	Class A Amplifier	150	-10.0	150	3.0	30.0	71000	Max. DC Output Ma., 8 min.	—	—	—
6K8-GT	Triode-Heptode Converters	D1	6.3	Class A Amplifier	150	-10.0	150	3.0	30.0	71000	Max. DC Output Ma., 8 min.	—	—	—
6L5-G	Medium-Mu Triode	D1	6.3	Class A Amplifier	150	-10.0	150	3.0	30.0	71000	Max. DC Output Ma., 8 min.	—	—	—

Discontinued types are shown in light face.



Type	Name	Dimensions and Socket Connections	Tube	Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
				C.T.	Volts											
6L6	Beam Power Tubes	D7	7AC	H	6.3	0.9	250	-14.0	250	5.0	72.0	—	—	—	2500	6.5
							250	Cath. Bias	250	5.4	75.0	Cath. Bias Resistor, 170 ohms.	—	—	2500	6.5
6L6-G		E2	G-7AC†	H	6.3	0.9	270	-17.5	270	11.0	134.0	Cath. Bias Resistor, 125 ohms.	—	—	5000	17.5†
							270	Cath. Bias	270	11.0	134.0	Cath. Bias Resistor, 125 ohms.	—	—	5000	18.5†
6L7	Pentagrid Mixers	D1	7T	H	6.3	0.3	360	-22.5	270	5.0	83.0	Cath. Bias Resistor, 250 ohms.	—	—	6000	26.5†
							360	Cath. Bias	270	5.0	83.0	Cath. Bias Resistor, 250 ohms.	—	—	6000	24.5†
6L7-G	Direct-Coupled Power Triodes	D10	G-7T†	H	6.3	0.8	360	-18.0	225	3.5	78.0	—	—	—	3800	31.0†
							360	Cath. Bias	225	3.5	78.0	—	—	—	3800	47.0†
6N6-G	High-Mu Twin Power Triodes	C2	8B	H	6.3	0.8	250	-20.0	—	—	40.0	—	—	—	5000	1.4
							250	Cath. Bias	—	—	40.0	Cath. Bias Resistor, 490 ohms.	—	—	6000	1.3
6N7-GT	Medium-Mu Triode	C2b	G-6Q1	H	6.3	0.3	250	-3.0	100	7.1	2.4	—	—	—	—	—
							250	—	100	7.1	2.4	Oscillator-Grid (#3) Bias, -10 volts. Grid #3 Peak Swing, 12 volts minimum. Conversion Transcond., 375 micromhos.	—	—	—	—
6P5-GT	Triode-Pentode	D8	G-7T†	H	6.3	0.3	250	-3.0	100	6.5	5.3	600000	1100	—	—	—
							250	Output Triode: Plate Volts, 300; Place Ma., 45; Load, 7000 ohms. Triode: Plate Volts, 300; Grid Volts, 0; A-F Signal Volts (Peak), 21; Plate Ma., 8.	—	—	—	—	—	—	—	—
6Q7-G	Twin-Diode High-Mu Triodes	C1	7V	H	6.3	0.3	100	-1.0	—	—	0.8	58000	1200	70	—	—
							250	-3.0	—	—	1.1	58000	1200	70	—	—
6Q7-GT	Twin-Diode Medium-Mu Triodes	C1	G-7V†	H	6.3	0.3	90	-2.0	—	—	0.9	91000	100	100	—	—
							300	Cath. Bias, 3000 ohms.	—	—	—	—	—	—	—	—
6R7	Medium-Mu Triode	C2b	G-7V†	H	6.3	0.6	250	-9.0	—	—	9.5	8500	1900	16	—	—
							250	Self-Excited	100	8.5	3.3	500000	Grid #1 Resistor, 20000 ohms. Conversion Transcond., 450 micromhos.	—	—	—
6R7-G	Medium-Mu Triode	C2b	G-7V†	H	6.3	0.6	90	-2.0	—	—	0.22	—	—	—	—	—
							300	Cath. Bias, 5000 ohms.	—	—	—	—	—	—	—	—
6S4	Medium-Mu Triode	D3	9AC	H	6.3	0.6	Max. DC Plate Volts, 500	—	—	—	—	—	—	—	Max. Peak Positive-Pulse Plate Volts, 2000	—
							Max. DC Cathode Ma., 30	—	—	—	—	—	—	—	Max. Plate Dissipation, 7.5 watts	—

For other characteristics, refer to Type 76.

For other characteristics, refer to Type 6F7.

For other characteristics, refer to Type 6F7.

For other characteristics, refer to Type 6F7.

For other characteristics, refer to Type 6F7.

For other characteristics, refer to Type 6F7.

For other characteristics, refer to Type 6F7.

For other characteristics, refer to Type 6F7.

For other characteristics, refer to Type 6SA7.																	
6SA4-A	Medium-Mu Triode	B3	9AC	H	6.3	0.6	Vertical Deflection Amplifier in TV Receivers										
							135	- 3.0	67.5	0.9	3.7	1.0	1250	—	—	—	
6S7	Remote-Cutoff Pentode	C1	7R	H	6.3	0.15	Class A Amplifier	250	—	100	2.0	8.5	1.0 <td>1750</td> <td>—</td> <td>—</td>	1750	—	—	
6S8-GT	Triode-Diode Triode	C6a	80B	H	6.3	0.3	Triode Unit as Class A Amplifier	100	- 1.0	—	—	0.4	110000	900	100	—	
								250	- 2.0	—	—	0.9	91000	1100	100	—	—
6SA7	Pentagrid Converter	B2	8R	H	6.3	0.3	Mixer	100	Self-Excited	100	8.5	3.3	500000	Grid #1 Resistor, 20000 ohms.			
								250	—	100	8.5	3.5	1.0	Conversion Transcond., 450 micromhos.			
For other characteristics, refer to Type 6SA7.																	
6SA7-GT	Pentagrid Converter	C3	G-8AD	H	6.3	0.3	Mixer	100	- 1.0	100	10.2	3.6	500000	Grid #1 Resistor, 20000 ohms			
6SB7-Y	Pentagrid Converter	B2	8R	H	6.3	0.3	Mixer	250	- 1.0	100	10.0	3.8	1.0	Conversion Transcond., 950 micromhos			
6SC7	Twin-Triode Amplifier	B2	8S	H	6.3	0.3	Each Unit as Amplifier	250	- 2.0	—	—	2.0	53000	1325	70	—	
6SF5	High-Mu Triodes	B2	6AB	H	6.3	0.3	Class A Amplifier	100	- 1.0	—	—	0.4	85000	1150	100	—	
								250	- 2.0	—	—	0.9	66000	1500	100	—	—
6SF5-GT	Diode-Pentode	C2b	G-8AB†	H	6.3	0.3	Class A Amplifier	90	Cath. Bias, 8800 ohms.	300	Cath. Bias, 3200 ohms.	{ Gain per stage = 43 Gain per stage = 63					
6SF7	Remote-Cutoff Pentode	B2	7AZ	H	6.3	0.3	Pentode Unit as Class A Amplifier	100	- 1.0	100	4.3	13.5	200000	1975	—	—	
								250	- 1.0	100	4.1	13.9	700000	2050	—	—	—
6SG7	Remote-Cutoff Pentode	B2	8BK	H	6.3	0.3	Class A Amplifier	100	- 1.0	100	3.2	8.2	250000	4100	—	—	
								250	- 1.0	125	3.4	11.8	900000	4700	—	—	
6SH7	Sharp-Cutoff Pentode	B2	8BK	H	6.3	0.3	Class A Amplifier	100	- 1.0	100	2.1	5.3	330000	4000	—	—	
								250	- 1.0	150	4.1	10.8	900000	4900	—	—	
6SJ7	Sharp-Cutoff Pentodes	B2	8N	H	6.3	0.3	Class A Amplifier	100	- 3.0	100	0.9	2.9	700000	1575	—	—	
								250	- 3.0	100	0.8	3.0	1.0 + ½	1650	—	—	—
6SJ7-GT	Remote-Cutoff Pentodes	C3	GT-8N†	H	6.3	0.3	Class A Amplifier	90	Cath. Bias, 1700 ohms.	300	Cath. Bias, 860 ohms.	{ Gain per stage = 93 Gain per stage = 167					
6SK7	Remote-Cutoff Pentodes	B2	8N	H	6.3	0.3	Class A Amplifier	100	- 1.0	100	4.0	13.0	120000	2350	—	—	
								250	- 3.0	100	2.6	9.2	800000	2080	—	—	—
6SL7-GT	High-Mu Twin Triode	C2b	8BD	H	6.3	0.3	Each Unit as Class A Amplifier	250	- 2.0	—	—	2.3	44000	1600	70	—	
6SN7-GT	Medium-Mu Twin Triode	C2b	8BD	H	6.3	0.6	Each Unit as Class A Amplifier	90	0	—	—	10.0	6700	3000	20	—	
								250	- 8.0	—	—	9.0	2700	2600	20	—	—
6SN7-GT	Medium-Mu Twin Triode	C2b	8BD	H	6.3	0.6	Each Unit as Class A Amplifier	90	0	—	—	10.0	6700	3000	20	—	
								250	- 8.0	—	—	9.0	2700	2600	20	—	—
6SN7-GTA	Medium-Mu Twin Triode	C2b	8BD	H	6.3	0.6	Vertical Deflection Amplifier in TV Receivers +	Max. DC Plate Vols., 450 Max. Peak Cathode Ra., 70 Max. Peak Positive Pulse Vols., 1500 Max. Peak Dissipation; 5 watts either plate; 7.5 watts both plates.									



Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts	
			Dimen.	S.C.												Volts
For other characteristics, refer to Type 6SN7-GTA																
6SN7-GTB	Medium-Mu Twin-Triode	C2b	8BD	H	6.3	0.6	Class A Amplifier	100 250	-1.0 -2.0	—	0.5 1.1	110000 85000	925 1175	100 100	—	—
6SQ7	Twin-Diode High-Mu Triodes	B2 C3	8Q GT-8Q-2	H	6.3	0.3	Triode Unit as Class A Amplifier	90 X 300 X	Cath. Bias, 11000 ohms. Cath. Bias, 3900 ohms.	—	—	Grid Resistor, ** 0.5 megohm.	—	—	—	Gain per stage = 40 Gain per stage = 53
6SQ7-GT	Duplex-Diode Triode	B2	8Q	H	6.3	0.3	Triode Unit as Class A Amplifier	250	-9.0	—	9.5	8500	1900	16	10000	0.3
6SR7	Remote-Cutoff Pentode	B2	8N	H	6.3	0.15	Class A Amplifier	100 250	-1.0 -3.0	100 100	3.1 2.0	12.2 9.0	1930 1850	—	—	—
6SS7	Duplex-Diode Triode	B2	8Q	H	6.3	0.15	Triode Unit as Amplifier	100 250	-1.0 -3.0	—	—	—	—	—	—	—
6ST7	Twin-Diode High-Mu Triode	B2	8Q	H	6.3	0.15	Triode Unit as Class A Amplifier	135 250	-1.5 -3.0	—	—	0.9 1.2	6500 6200	1000 1050	65 65	—
6SZ7	Twin-Diode High-Mu Triode	D8	Q-7V2	H	6.3	0.15	Triode Unit as Class A Amplifier	90 X 300 X	Cath. Bias, 8300 ohms. Cath. Bias, 4380 ohms.	—	—	Grid Resistor, ** 0.5 megohm.	—	—	—	Gain per stage = 30 Gain per stage = 40
6T7-G	Twin-Diode High-Mu Triode	B0a	8E	H	6.3	0.45	Triode Unit as Class A Amplifier	100 250	-1 -3	—	0.8 1.0	54000 58000	1300 1200	70 70	—	—
6T8	Triple-Diode High-Mu Triode	D4	8R	H	6.3	0.3	Visual Indicator	—	—	—	—	—	—	—	—	—
6U5	Electron-Ray Tube	D12a	G-7B1	H	6.3	0.3	Class A Amplifier	100 250	-3.0 -10.0	100 100	2.2 2.0	8.0 8.2	25000 80000	1500 1600	—	Oscillator Peak Volts = 7.0
6U7-G	Remote-Cutoff Pentode	B0a	8AE	H	6.3	0.45	Mixer in Superheterodyne Triode Unit as Class A Amplifier	100 250	-10.0 Cath.	—	—	—	—	—	—	Cath. Res., 56 ohms
6U8	Triode-Remote-Cutoff Pentode	B4a	32	H	6.3	1.75	Television Duplexer Service	250	Cath. Bias	110	3.5	10	40000	5200	—	Cath. Res., 68 ohms
6V3-A	Half-Wave Rectifier															

Max. Peak Inverse Plate Volts, 6000 (Abs.)

Max. Peak Plate Ma., 800

Max. DC Plate Ma., 135

Max. Peak Heater-Cathode Volts, 4300

Max. Peak Cathode Volts, 4300

\*DC component not to exceed -750 volts

6V6	Beam Power Tubes	C2	7AC	H	6.3	0.45	Single-Tube Class A Amplifier	180 250 315	-8.5 -12.5 -13.0	180 250 235	3.0 4.5 2.2	29.0 45.0 34.0	50000 50000 80000	3700 4100 3750	— — —	5500 5000 8500	2.0 4.5 5.5
6V6-GT		C2b	G-7AC†				Class AB <sub>1</sub> Amplifier	250	-19.0	250	5.0	70.0	60000	3750	—	10000	10.0†
6V7-G	Duplex-Diode Triode	D8	G-7V†	H	6.3	0.3	Triode Unit as Amplifier	285	-19.0	285	4.0	70.0	70000	3500	—	8000	14.0†
6W4-GT	Half-Wave Rectifier	C2b	4CG	H	6.3	1.2	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 350 Max. DC Output Ma., 125 Min. Total Effect. Supply Max. Peak Inverse Volts, 3500†, 1250 Max. Peak Plate Ma., 600 Imped. per Plate, 145 ohms.									
6W6-GT	Beam Power Amplifier	C2b	G-7AC†	H	6.3	1.2	Vertical Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 300 Max. Peak Positive-Pulse Plate Volts, 1200 Max. Peak Negative-Pulse Grid Volts, 250 Max. Peak Dissipation, 7.5 watts									
6W7-G	Sharp-Cutoff Pentode	D8	G-7B†	H	6.3	0.15	Class A Amplifier	250	-3.0	100	0.5	2.0	1.5	1225	—	—	—
6X4	Full-Wave Rectifier	B1	8BS	H	6.3	0.6	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 325 Max. DC Output Ma., 70 Total Effect. Supply Max. Peak Inverse Volts, 1250 Max. DC Plate Ma., 210 Imped. per Input									
6X5	Full-Wave Rectifiers	C2	6S	H	6.3	0.6	With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. DC Output Ma., 70 Min. Value of Input									
6X5-GT		C2b	G-8S†				With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 325 Max. DC Output Ma., 210 Total Effect. Supply Max. Peak Inverse Volts, 1250 Max. DC Plate Ma., 210 Imped. per Plate, 320 ohms									
6X5-GT							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. DC Output Ma., 70 Min. Value of Input Choose, Max. Peak Inverse Volts, 1250 Max. DC Plate Ma., 210 10 henries									
6X5	Triode-Pentode Converter	B0a	9AK	H	6.3	0.45	Triode Unit as 250-Mc. Oscillator	150	Grid Resistor, 2700 ohms Grid Current, 3.6 ma. Power Output (approx.), 0.5 watt Ops. Volts at Mixer Grid No. 1 (RMS), 2.6 Mixer Grid No. 1 Resistor, 120000 ohms Conversion Transconductance, 2100 amhos								
6Y5	Full-Wave Rectifier	D5	6J	H	6.3	0.8	Pentode Unit as Mixer†	Max. AC Volts per Plate (RMS), 350 Max. DC Output Ma., 50									
6Y6-G	Beam Power Tube	D10	G-7AC†	H	6.3	1.25	With Capacitive-Input Filter	135 200	-13.5 -14.0	135 135	3.5 2.2	58.0 61.0	9300 18300	7000 7100	2000 2600	3.6 6.0	
6Y7-G	Twin-Triode Amplifier	D3	G-8B†	H	6.3	0.6	Class B Amplifier	For other characteristics, refer to Type 79.									
6Z5	Full-Wave Rectifier	D5	6K	H	12.6	0.4	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 230 Max. DC Output Ma., 60									
6Z7-G	Twin-Triode Amplifier	D3	G-8B†	H	6.3	0.3	Class B Amplifier	135 180	0 0	— —	— —	Power Output is for one tube at rated plate-to-plate load.			5000 12000	2.5 4.2	
6ZY5-G	Full-Wave Rectifier	D3	G-8S†	H	6.3	0.3	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 335 Max. DC Output Ma., 40 Min. Total Effect. Supply Max. Peak Inverse Volts, 1350 Max. Peak Plate Ma., 120 Imped. per Plate, 225 ohms									
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. DC Output Ma., 40 Min. Value of Input Choose, Max. Peak Inverse Volts, 1250 Max. Peak Plate Ma., 120 13.5 henries									
7A4	Medium-Mu Triode	B5	5AC2	H	6.3	0.3	Amplifier	110 125	-7.5 -9.0	110 125	3.0 3.3	40.0 44.0	16000 17000	5800 6000	— —	2500 2700	1.5 2.2
7A5	Power Tube	C2a	6AA	H	6.3	0.75	Class A Amplifier	For other characteristics, refer to Type 6J5.									

Discontinued types are shown in light face.



Type	Name	Dimensions and Socket Connections	Tube S.C.	Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current mA	Plate Current mA	AC Plate Resistance Ohms	Transconductance (Grid-plate) $\mu$ mhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
				C.T.	Volts											
7A6	Twin Diode	B5	7AJ	H	6.3	0.15	100	- 3.0	75	2.7	1.8	65000	150	16	—	max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor •, Conversion Transcond., 550 $\mu$ mhos.
7A7	Remote-Cutoff Pentode	B5	8V	H	6.3	0.3	250	- 3.0	100	3.2	3.0	70000	150	17	—	max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor •, Conversion Transcond., 550 $\mu$ mhos.
7A8	Octode Converter	B5	8U	H	6.3	0.15	300	Cath. Bias	150	7.0	28.0	300000	9500	16	—	max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor •, Conversion Transcond., 550 $\mu$ mhos.
7AD7	Power Pentode	C2a	8V	H	6.3	0.6	250	- 10	—	—	9.0	7600	2100	16	—	max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor •, Conversion Transcond., 550 $\mu$ mhos.
7AF7	Medium-Mu Twin Triode	B5	8AG	H	6.3	0.3	100	Cath. Bias	—	—	10.8	6500	2600	17	—	max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor •, Conversion Transcond., 550 $\mu$ mhos.
7AG7	Sharp-Cutoff Pentode	B5	8V	H	6.3	0.15	250	Cath. Bias	250	2.0	6.0	1 meg.	4200	—	—	max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor •, Conversion Transcond., 550 $\mu$ mhos.
7AH7	Sharp-Cutoff Pentode	B5	8V	H	6.3	0.15	250	Cath. Bias	250	1.9	6.8	1 meg.	3300	—	—	max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor •, Conversion Transcond., 550 $\mu$ mhos.
7AU7	Medium-Mu Twin Triode	B5a	9A	H	3.5	0.6	100	0	—	—	13.0	6300	3500	22	—	max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor •, Conversion Transcond., 550 $\mu$ mhos.
7B4	High-Mu Triode	B5	8AC	H	6.3	0.3	250	- 8.5	—	—	10.5	7950	2200	17.5	—	max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor •, Conversion Transcond., 550 $\mu$ mhos.
7B5	Power Amplifier Pentode	C2a	8AE	H	6.3	0.4	250	- 8.5	—	—	—	—	—	—	—	max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor •, Conversion Transcond., 550 $\mu$ mhos.
7B6	Twin-Diode High-Mu Triode	B5	8W	H	6.3	0.3	250	- 8.5	—	—	—	—	—	—	—	max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor •, Conversion Transcond., 550 $\mu$ mhos.
7B7	Remote-Cutoff Pentode	B5	8V	H	6.3	0.15	250	- 3.0	100	1.7	8.5	75000	1750	—	—	max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor •, Conversion Transcond., 550 $\mu$ mhos.
7B8	Pentagrid Converter	B5	8X	H	6.3	0.3	—	—	—	—	—	—	—	—	—	max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor •, Conversion Transcond., 550 $\mu$ mhos.
7C5	Beam Power Tube	C2a	8AA	H	6.3	0.45	—	—	—	—	—	—	—	—	—	max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor •, Conversion Transcond., 550 $\mu$ mhos.
7C6	Twin-Diode High-Mu Triode	B5	8W	H	6.3	0.15	100	- 3.0	100	0.4	1.8	1.25	1225	100	—	max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor •, Conversion Transcond., 550 $\mu$ mhos.
7C7	Sharp-Cutoff Pentode	B5	8V	H	6.3	0.15	250	- 3.0	100	0.5	2.0	2.05	1300	—	—	max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor •, Conversion Transcond., 550 $\mu$ mhos.
7E6	Twin-Diode Triode	B5	8W	H	6.3	0.3	—	—	—	—	—	—	—	—	—	max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor •, Conversion Transcond., 550 $\mu$ mhos.

7E7	Twin-Diode Pentode	B5	8AE	H	6.3	0.3	100	Cath. Bias	100	2.7	10.0	150000	1650	—	—	Cath. Res., 800 ohms
7F7	Twin-Triode Amplifier	B5	8AC	H	6.3	0.3	250	- 2.0	100	1.6	7.5	700000	1300	—	—	Cath. Res., 330 ohms
7F8	Twin-Triode Amplifier	B5b	8BW	H	6.3	0.3	250	- 2.0	100	2.0	6.0	800000	4500	—	—	—
7G7	Sharp-Cutoff Pentode	B5	8V	H	6.3	0.45	250	- 1.5	100	2.6	7.5	350000	4000	—	—	—
7H7	Sharp-Cutoff Pentode	B5	8V	H	6.3	0.3	250	- 1.0	100	3.2	10.0	800000	4000	—	—	—
7J7	Triode-Heptode Converter	B5	8BL	H	6.3	0.3	100	Triode-Grid Resistor, 50000 ohms	250	3.2	3.0	4000	—	—	—	Cath. Res., 180 ohms
7K7	Twin-Diode High-Mu Triode	B5	8BF	H	6.3	0.3	250	- 3.0	100	2.6	1.5	500000	—	—	—	—
7L7	RF Amplifier Pentode	B5	8V	H	6.3	0.3	250	- 3.0	100	2.8	1.4	1.35	—	—	—	—
7N7	Twin-Triode Amplifier	C2a	8AC	H	6.3	0.6	250	- 2	—	—	2.3	44000	1600	70	—	—
7Q7	Pentagrid Converter	B5	8AL	H	6.3	0.3	250	- 1.0	100	2.4	5.5	100000	3000	—	—	—
7R7	Twin-Diode Pentode	B5	8AE	H	6.3	0.3	250	- 1.5	100	1.5	4.5	1.05	—	—	—	—
7S7	Triode-Heptode Converter	B5	8DL	H	6.3	0.3	250	- 2.0	100	3.0	1.8	1.255	—	—	—	—
7V7	RF Amplifier Pentode	B5	8V	H	6.3	0.45	300	—	150	3.9	10.0	300000	5800	—	—	Cath. Bias Res., 160 ohms
7W7	RF Amplifier Pentode	B5	8BL	H	6.3	0.45	300	—	150	3.9	10.0	300000	5800	—	—	—
7X7	Twin-Diode High-Mu Triode	C2a	8BZ	H	6.3	0.3	250	- 1.0	—	—	1.2	85000	1000	85	—	—
7Y4	Full-Wave Rectifier	B5	8AB	H	6.3	0.5	250	- 1.0	—	—	1.9	67000	1500	100	—	—
7Z4	Full-Wave Rectifier	C2a	8AB	H	6.3	0.9	350	- 32.0	—	—	—	—	—	—	—	—
100	Power Amplifier Triode	E3	4D	F	7.5	1.25	425	- 40.0	—	—	18.0	5150	1550	8.0	11000	0.9

Discontinued types are shown in light face.







Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma	Plate Current Ma	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
12CA5	Beam Power Tube	Dimm. B1	C.I. H 12-6	Class A Amplifier	110 125	- 4 - 4.5	110 125	3.5 4.0	32 37	15000 16000	8100 9200	—	3500 4500	1.1 1.5
12F5-GT	High-Mu Triode	C2b	G-5M,† H 12-6	Amplifier	For other characteristics, refer to Type 6SH6.									
12H6	Twin-Diode	A1a	H 12-6	Detector Rectifier	For other characteristics, refer to Type 6J5.									
12J5-GT	Medium-Mu Triode	C3	H 12-6	Amplifier	For other characteristics, refer to Type 6J7.									
12J7-GT	Sharp-Cutoff Pentode	C3	H 12-6	Amplifier	For other characteristics, refer to Type 6K7.									
12K7-GT	Remote-Cutoff Pentode	C3	H 12-6	Amplifier	For other characteristics, refer to Type 6X8.									
12K8	Triode-Hexode Converter	C1	H 12-6	Oscillator Mixer	For other characteristics, refer to Type 6X8.									
12L6-GT	Beam Power Tube	C2b	G-2AC, H 12-6	Class A Amplifier	110 200	- 7.5 Δ	110 125	4.0 4.6	49 46	13000 28000	8000 8000	—	2000 4000	2.1 3.8
12Q7-GT	Twin-Mu Triode	C3	H 12-6	Triode Unit as Amplifier	For other characteristics, refer to Type 6Q7.									
12S8-GT	High-Mu Triode	C2a	H 12-6	Triode Unit as Class A Amplifier	100 250	- 1 - 2	—	—	0.4 0.9	110000 91000	900 1100	100 100	—	—
12SA7	Pentagrid Converter	B2	H 12-6	Mixer	For other characteristics, refer to Type 6SA7.									
12SA7-GT	Pentagrid Converter	C2b	H 12-6	Mixer	For other characteristics, refer to Type 6SA7.									
12SC7	Twin-Triode Amplifier	B2	H 12-6	Each Unit as Class A Amplifier	For other characteristics, refer to Type 6SC7.									
12SF5	High-Mu Triode	B2	H 12-6	Class A Amplifier	For other characteristics, refer to Type 6SF5.									
12SF5-GT	High-Mu Triode	C2b	H 12-6	Class A Amplifier	For other characteristics, refer to Type 6SF5.									
12SF7	Diode-Remote-Cutoff Pentode	B2	H 12-6	Pentode Unit as Amplifier	For other characteristics, refer to Type 6SF7.									
12SG7	Remote-Cutoff Pentode	B2	H 12-6	Class A Amplifier	For other characteristics, refer to Type 6SG7.									
12SH7	Sharp-Cutoff Pentode	B2	H 12-6	Class A Amplifier	For other characteristics, refer to Type 6SH7.									
12SJ7	Sharp-Cutoff Pentode	B2	H 12-6	Class A Amplifier	For other characteristics, refer to Type 6SJ7.									
12SJ7-GT	Sharp-Cutoff Pentodes	C3	H 12-6	Class A Amplifier	For other characteristics, refer to Type 6SJ7.									

6V6	Beam Power Tubes	C2	7AC	H	6.3	0.45				180 250 315	- 8.5 - 12.5 - 13.0	180 250 225	3.0 4.5 4.2	29.0 45.0 34.0	50000 50000 80000	3700 4100 3750	— — —	5500 5000 8500	2.0 4.5 5.5
6V6-GT		C2b	G-7AC,†	H	6.3	0.45				250 285	- 15.0 - 19.0	250 285	5.0 4.0	70.0 70.0	60000 70000	3750 3600	— —	10000 8000	10.0 14.0
6V7-G	Duplex-Diode Triode	D8	G-7V1	H	6.3	0.3				For other characteristics, refer to Type 6S.									
6W4-GT	Half-Wave Rectifier	C2b	4CG	H	6.3	1.2				Max. AC Plate Volts (RMS), 350 Max. DC Output Ma., 125 Max. Peak Plate Ma., 600 Max. Peak Inverse Volts 35000, 1250 Max. Peak Negative Pulse Plate Volts, 1200 Max. Plate Dissipation, 7.5 watts									
6W6-GT	Beam Power Amplifier	C2b	G-7AC,†	H	6.3	1.2				Max. DC Plate Volts, 300 Max. Plate Dissipation, 7.5 watts									
6W7-G	Sharp-Cutoff Pentode	D8	G-7V1	H	6.3	0.15				250	- 3.0	100	0.5	2.0	1.5	1225	—	—	—
6X4	Full-Wave Rectifier	B1	605	H	6.3	0.6				Max. AC Volts per Plate (RMS), 325 Max. DC Output Ma., 70 Max. Peak Plate Ma., 210 Max. AC Volts per Plate (RMS), 450 Max. DC Output Ma., 210 Max. Peak Plate Ma., 210 Min. Value of Input									
6X5	Full-Wave Rectifiers	C2	65	H	6.3	0.6				Max. AC Volts per Plate (RMS), 325 Max. DC Output Ma., 70 Min. Total Effect, Supply									
6X5-GT		C2b	G-6S1	H	6.3	0.6				Max. AC Volts per Plate (RMS), 450 Max. DC Output Ma., 70 Min. Value of Input, 200 ohms Plate Current, 13 ma.									
6X8	Triode- Pentode Converter	B2a	9AX	H	6.3	0.45				150	Grid Resistor, 2700 ohms Grid Current, 3.6 ma.	Power Output, (Approx.) 0.5 watt Quc. Volts at Max. Grid No. 1 (RMS), 2.6 Max. Grid No. 1 Mixer Grid No. 1 Resistor, 12000 ohms Conversion Transconductance, 2100 amhos Plate Current, 6.2 ma.							
6Y5	Full-Wave Rectifier	D5	UJ	H	6.3	0.8				135 200	- 13.5 - 14.0	135 135	3.5 2.2	58.0 61.0	9300 16300	7000 7100	— —	2000 2000	3.6 5.0
6Y6-G	Beam Power Tube	D10	G-7AC,†	H	6.3	1.25				Max. AC Volts per Plate (RMS), 350 Max. DC Output Ma., 50									
6Y7-G	Twin-Triode Amplifier	D3	G-80,†	H	6.3	0.6				For other characteristics, refer to Type 79.									
6Z5	Full-Wave Rectifier	D5	6K	H	6.3	0.8				Max. AC Volts per Plate (RMS), 230 Max. DC Output Ma., 60									
6Z7-G	Twin-Triode Amplifier	D3	G-80,†	H	6.3	0.3				135 180	0 0	— —	— —	— —	— —	— —	9000 12000	2.5 4.2	
6ZY5-G	Full-Wave Rectifier	D3	G-8S1	H	6.3	0.3				Max. AC Volts per Plate (RMS), 325 Max. DC Output Ma., 40 Min. Total Effect, Supply Max. AC Volts per Plate (RMS), 450 Max. DC Output Ma., 40 Min. Value of Input, 225 ohms 13.5 lemmas									
7A4	Medium-Mu Triode	B5	5AC,†	H	6.3	0.3				For other characteristics, refer to Type 6J5.									
7A5	Beam Power Tube	C2a	6AA	H	6.3	0.75				110 125	- 7.5 - 9.0	110 125	3.0 3.3	40.0 44.0	16000 17000	5800 6000	— —	2500 2700	1.5 2.2

Discontinued types are shown in light face.



RCA Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
14F8	Medium-Mu Twin Triode	D10a, 8BW	H 12.6	Each Unit as Class A Amplifier	250	—	Cathode-Bias Res., 500 ohms	6.0	—	—	3300	48	—	—
14H7	Remote-Cutoff Pentode	B5	H 12.6	Class A Amplifier	—	—	For other characteristics, refer to Type 7H7.	—	—	—	—	—	—	—
14J7	Triode-Heptode Converter	B5	H 12.6	Converter	—	—	For other characteristics, refer to Type 7J7.	—	—	—	—	—	—	—
14N7	Twin-Triode Amplifier	C2a	H 12.6	Each Unit as Class A Amplifier	—	—	For other characteristics, refer to Type 6J5.	—	—	—	—	—	—	—
14Q7	Pentagrid Converter	B5	H 12.6	Converter	—	—	For other characteristics, refer to Type 6SA7.	—	—	—	—	—	—	—
14R7	Twin-Diode Pentode	B5	H 12.6	Penitode Unit as Class A Amplifier	67.5 135	— 1.5 — 1.5	67.5 67.5	0.3 0.3	1.85 1.85	630000 800000	710 750	—	—	—
15	RF Amplifier Pentode	D9	D.C. H 2.0	Class A Amplifier	—	—	For other characteristics, refer to Type 1J6-G.	—	—	—	—	—	—	—
19	Twin-Triode Amplifier	D5	D.C. F 2.0	Amplifier	—	—	—	—	—	—	—	—	—	—
19BG6-G	Beam Power Tube	F1	H 18.9	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 700 Max. DC Plate Current, 100 ma.	—	—	—	—	Max. Peak Positive-Pulse Plate Volts, 6000 Max. Plate Dissipation, 20 watts	—	—	—	—
19J6	Medium-Mu Twin Triode	B9	H 18.9	Each Unit as Class A Amplifier	100	—	Cathode-Bias Res., 500 ohms	8.5	7100	5300	38	—	—	—
19T8	Triode-Diode High-Mu Triode	B0a	H 18.9	Triode Unit as Class A Amplifier	—	—	For other characteristics, refer to Type 6T8.	—	—	—	—	—	—	—
19X8	Triode-Pentode Converter	B0a	H 18.9	Class A Amplifier	—	—	For characteristics, refer to Type 6X8.	—	—	—	—	—	—	—
20	Power Amplifier Triode	D1	D.C. F 3.3	Class A Amplifier	90 135	— 16.5 — 22.5	—	—	3.0 6.5	8000 6300	415 525	3.3 3.3	9600 6500	0.045 0.110
22	RF Amplifier Tetrode	E1	D.C. F 3.3	Screen-Grid RF Amplifier	135	— 1.5	45	0.6*	1.7	725000	375	—	—	—
24-A	RF Amplifier Tetrode	E1	H 2.5	Screen-Grid RF Amplifier	180 250	— 3.0 — 3.0	90 90	1.3* 1.7*	3.7 4.0	325000 400000	500 1000	—	—	—
25A6	Power Amplifier Pentode	C2	H 25.0	Beam Detector	250M	— 5.0 approx.	20 to 45	—	—	Plate current to be adjusted to 0.1 milliamperes with no signal.	—	—	—	—
				Class A Amplifier	95 160	— 15.0 — 18.0	95 120	4.0 6.5	20.0 33.0	45000 42000	2000 2375	—	4500 5000	0.9 2.2

25A6-GT	Power Amplifier Pentode	C3	H 25.0	Class A Amplifier	100	— 15.0	100	4.0	20.5	50000	1800	—	4500	0.77
25A7-GT	Rectifier Pentode	C3	H 25.0	Penitode Unit as Class A Amplifier	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Volts, 350	—	—	—	—	Max. DC Output Ma., 75 Max. Peak Plate Ma., 450	—	Min. Total Effect. Supply Impedance, 15 ohms.	—	—
25AC5-GT	High-Mu Power Amplifier Triode	C3	H 25.0	Class B Amplifier	180	0	—	—	4.0*	—	—	—	4800	6.0
25B5	Direct-Coupled Power Amplifier Pentode	D9a	H 25.0	Dynamic-Comp. Amp. With Type 6AE5-GT Driver	110	—	—	—	—	Bias for both 25AC5-GT and 6AE5-GT developed in circuit. Average Plate Current of Driver = 7 milliamperes.	—	—	2000	2.0
25B6-G	Power Amplifier Pentode	D10	H 25.0	Amplifier	105 200	— 16.0 — 23.0	105 135	2.0 1.8	48.0 62.0	15500 18000	4800 5000	—	1700 2500	2.4 7.1
25B8-GT	Triode-Pentode	C3	H 25.0	Triode Unit as Class A Amplifier	100	— 1.0	—	—	0.6	75000	1500	112	—	—
25BQ6-GT	Beam Power Tube	C11	H 25.0	Penitode Unit as Class A Amplifier	100	— 3.0	100	2.0	7.6	185000	2000	—	—	—
25BQ6-GT/25C06	Beam Power Tube	C11	H 25.0	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 600 Max. DC Cathode Ma., 112.5	—	—	—	—	Absolute Max. Peak Positive-Pulse Plate Volts, 6000 Max. Plate Dissipation, 11 Watts	—	—	—	—
25C6-G	Beam Power Tube	D10	H 25.0	Class A Amplifier	110	— 4.0	110	3.5	32	16000	8100	—	3500	1.1
25CA5	Beam Power Tube	B1	H 25.0	Class A Amplifier	125	— 4.5	125	4.0	37	15000	9200	—	4500	1.5
25CD6-GA	Beam Power Tube	F1	H 25	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 700 Max. DC Plate Ma., 170	—	—	—	—	Max. Peak Positive-Pulse Plate Volts, 6000 Max. Plate Dissipation, 15 Watts	—	—	—	—
25L6	Beam Power Tube	C2	H 25.0	Amplifier	110 200	— 7.5 — 8.0	110 110	4.0 2.0	49.0 50.0	13000 30000	9000 9500	—	2000 3000	2.1 4.3
25L6-GT	Beam Power Tube	C2b	H 25.0	Amplifier	For other characteristics, refer to Type 59L6-GT.	—	—	—	—	—	—	—	—	—
25N6-G	Direct-Coupled Power Amplifier	D9	H 25.0	Class A Amplifier	Output Triode: Plate Volts, 180; Plate Ma., 46; Load, 4000 ohms. Triode: Plate Volts, 100; Grid Volts, 0; A-F Signal Volts (Peak), 39.7; Plate Ma., 5.8.	—	—	—	—	—	—	—	3.8	—
25W4-GT	Half-Wave Rectifier	C2b	H 25.0	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 350 Max. Peak Inverse Volts, 2000	—	—	—	—	Max. DC Output Ma., 125 Max. Peak Plate Ma., 600	—	Min. Total Effect. Supply Imped., per Plate, 145 ohms	—	—
25Y5	Rectifier-Doubler	D5	H 25.0	Half-Wave Rectifier	Max. AC Volts per Plate (RMS), 335 Max. DC Output Ma. per Plate, 75	—	—	—	—	Min. Total Effective Plate-Supply Impedance per Plate, 0 ohms.	—	—	—	—
25Z5	Rectifier-Doubler	D6	H 25.0	Rectifier-Doubler	For other ratings, refer to Type 25Z6.	—	—	—	—	—	—	—	—	—

Discontinued types are shown in light face.



Type	Name	Tube Dimensions and Socket Connections		Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current mA	Plate Current mA	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load Power Output Ohms	Power Output Watts
		Dims.	S.C.	C.T.	Volts											
25Z6	Vacuum Rectifier-Doublers	D12	7Q	H	25.0	0.3	Max. AC Volts per Plate (RMS), 117 Max. DC Output Min., 75 Max. AC Volts per Plate (RMS), 235 Max. DC Output Max. per Plate, 75	90 180	— —	— —	2.9 6.2	8900 7300	935 1150	8.3 8.3	— —	— —
		C2b	G-7Q1	H	25.0	0.3										
26	Amplifier Triode	D12	4D	F	1.5	1.05	Class A Amplifier	90	— 7.0	—	—	—	—	—	—	—
27	Detector* Amplifier Triode	D5	5A1	H	2.5	1.75	Class A Amplifier	135	— 9.0	—	—	—	—	—	—	—
		D5	5A1	H	2.5	1.75	Bias Detector	250	— 21.0	—	—	—	—	—	—	—
30	Medium-Mu Triode	D5	4D	F	2.0	0.06	Amplifier	135	— 21.5	—	—	—	—	—	—	—
31	Power Amplifier Triode	D5	4D	F	2.0	0.13	Class A Amplifier	180	— 30.0	—	—	—	—	—	—	—
32	RF Amplifier Tetrode	E1	4K	F	2.0	0.06	Screen-Grid RF Amplifier	135	— 3.0	67.5	0.4	1.7	930000	640	—	—
		E1	4K	F	2.0	0.06	Bias Detector	180	— 6.0	67.5	0.4	1.7	1.0 + $\frac{1}{2}$	650	—	—
32L7-GT	Rectifier-Beam Power Amplifier	C3	8Z	H	32.5	0.3	Amplifier Unit as Class A Amplifier Half-Wave Rectifier	90	— 5.0	90	3.0	38.0	15000	6000	—	2600
33	Power Amplifier Pentode	D12	5K	F	2.0	0.26	Class A Amplifier	90	— 7.0	90	2.0	27.0	17000	4800	—	2600
34	Remote-Cutoff Pentode	E1	4M	F	2.0	0.06	Screen-Grid RF Amplifier	135	— 3.0	67.5	1.0	2.8	600000	600	—	6000
35	Remote-Cutoff Tetrode	E1	5E	H	2.5	1.75	Screen-Grid RF Amplifier	180	— 3.0	90	2.5*	6.3	300000	1020	—	—
		E1	5E	H	2.5	1.75	Single-Tube Class A Amplifier	250	— min.	90	2.5*	6.3	400000	1030	—	—
35A5	Beam Power Tube	C2a	6AA	H	35.0	0.15	Class A Amplifier	180	— 18.0	180	5.0	22.0	55000	1700	—	1.5
35B5	Beam Power Tube	B1	7B2	H	35.0	0.15	Class A Amplifier	135	— 3.0	67.5	1.0	2.8	600000	600	—	—
35C5	Beam Power Tube	B1	7C6	H	35.0	0.15	Class A Amplifier	180	— min.	67.5	1.0	2.8	1.05	620	—	—
35L6-GT	Beam Power Tube	C2b	G-7AC1	H	35.0	0.15	Screen-Tube Class A Amplifier	180	— 3.0	90	2.5*	6.3	300000	1020	—	—
		C2b	G-7AC1	H	35.0	0.15	Class A Amplifier	200	— $\Delta$	125	2.0	43.0	34000	6100	—	—

Discontinued types are shown in light face.

35W4	Half-Wave Rectifier Heater Tap for Pilot	C3a	5BQ	H
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Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Vols	Grid Bias Vols	Screen Supply Vols	Plate Current mA	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load for Std. Power Output Ohms	Power Output Watts
83	Full-Wave Rectifier	E3	F	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1550	—	—	—	Max. DC Output Ma., 225 Max. Peak Plate Ma., 1000	—	—	—	—
83-v	Full-Wave Rectifier	D12	H	With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550	—	—	—	Max. DC Output Ma., 225 Max. Peak Plate Ma., 1000	—	—	—	—
84/6Z4	Full-Wave Rectifier	D6	H	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 325 Max. Peak Inverse Volts, 1250	—	—	—	Max. DC Output Ma., 60 Max. Peak Plate Ma., 180	—	—	—	—
85	Twin-Diode Triode	D9	H	Class A Amplifier	135 250	—10.5 —20.0	—	—	11000 7500	8.3 7.0	25000 20000	0.075 0.350	—
89	Triple-Grid Power Amplifier	D9	H	Class A Amplifier	160 250	—20.0 —31.0	—	—	33000 26000	4.7 4.7	7000 5500	0.30 0.90	—
V-99 X-99	Detector* Amplifier Triode	D1	H	Class A Amplifier	160 250	—10.0 —25.0	—	—	104000 70000	12.00 1800	10700 6750	0.33 3.40	—
112-A	Detector* Amplifier Triode	D12	H	Class B Amplifier	180	0	—	—	—	—	—	—	—
117L7/ M7-GT	Rectifier-Beam Power Tube	C10	H	Class A Amplifier	90	—4.5	—	—	15500	425	6.6	—	—
117N7-GT	Rectifier-Beam Power Tube	C10	H	Class A Amplifier	90 180	—4.5 —13.5	—	—	5400 4700	1475 1800	8.5 8.5	—	—
117P7-GT	Rectifier-Beam Power Tube	C10	H	Class A Amplifier	105	—5.2	105	4.0	43.0	17000	5300	—	—
				Half-Wave Rectifier	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Volts, 350	—	—	—	Max. DC Output Ma., 75 Max. Peak Plate Ma., 450	—	—	—	—
				Amplifier Unit as Rectifier	100	—6.0	100	5.0	51.0	7000	—	3000	1.2
				Class A Amplifier	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Volts, 350	—	—	—	Max. DC Output Ma., 75 Max. Peak Plate Ma., 450	—	—	—	—
				Half-Wave Rectifier	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Volts, 350	—	—	—	Max. DC Output Ma., 75 Max. Peak Plate Ma., 450	—	—	—	—
				Amplifier Unit as Rectifier	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Volts, 350	—	—	—	Max. DC Output Ma., 75 Max. Peak Plate Ma., 450	—	—	—	—
				Class A Amplifier	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Volts, 350	—	—	—	Max. DC Output Ma., 75 Max. Peak Plate Ma., 450	—	—	—	—

For other ratings, refer to Type 5V4-G.

For other ratings, refer to Type 117L7/M7-GT.

For other ratings, refer to Type 117L7/M7-GT.

117Z3	Half-Wave Rectifier	B1a	H	117	0.04	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Volts, 330	—	—	—	—	—	—
117Z4-GT	Half-Wave Rectifier	C0	H	117.0	0.04	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Volts, 330	—	—	—	—	—	—
117Z6-GT	Rectifier-Doubler	C2b	H	117	0.075	Voltage Doubler	Max. AC Volts per Plate (RMS), 117 Max. DC Output Ma., 60	—	—	—	—	—	—
183/ 483	Power Amplifier Triode	D12	F	5.0	1.25	Class A Amplifier	250	—60.0	—	—	—	—	—
485	Detector Amplifier Triode	D5	H	3.0	1.25	Class A Amplifier	180	—9.0	—	—	—	—	—
876	Current Regulator	G1	F	—	—	Voltage Range	—	—	—	—	—	—	—
886	Current Regulator	G1	F	—	—	Voltage Range	—	—	—	—	—	—	—

Discontinued types are shown in light face.

## KEY TO TUBE DIMENSIONS

Symbol	Maximum Overall Length x Diameter	Symbol	Maximum Overall Length x Diameter	Symbol	Maximum Overall Length x Diameter
A	1 1/2" x 3/8"	B4	2 1/8" x 3/8"	C5	3 3/8" x 1 1/8"
A1	1 1/2" x 3/8"	B4a	2 1/8" x 3/8"	C6	3 3/8" x 1 1/8"
A1a	1 1/2" x 3/8"	B5	2 1/8" x 3/8"	C9a	3 3/8" x 1 1/8"
A1b	1 1/2" x 3/8"	B5a	2 1/8" x 3/8"	C10	3 3/8" x 1 1/8"
B0	2 1/8" x 3/8"	C0	3 3/8" x 1 1/8"	C10a	3 3/8" x 1 1/8"
B0a	2 1/8" x 3/8"	C0a	3 3/8" x 1 1/8"	C10b	3 3/8" x 1 1/8"
B0b	2 1/8" x 3/8"	C1	3 3/8" x 1 1/8"	C11	3 3/8" x 1 1/8"
B0c	2 1/8" x 3/8"	C2	3 3/8" x 1 1/8"	C11a	3 3/8" x 1 1/8"
B1	2 1/8" x 3/8"	C2a	3 3/8" x 1 1/8"	D1	4 1/8" x 1 1/8"
B1a	2 1/8" x 3/8"	C2b	3 3/8" x 1 1/8"	D2	4 1/8" x 1 1/8"
B2	2 1/8" x 3/8"	C3	3 3/8" x 1 1/8"	D2a	4 1/8" x 1 1/8"
B3	2 1/8" x 3/8"	C4	3 3/8" x 1 1/8"	D3	4 1/8" x 1 1/8"
				D4	4 1/8" x 1 1/8"
				D5	4 1/8" x 1 1/8"
				D7	4 1/8" x 1 1/8"
				D8	4 1/8" x 1 1/8"
				D8a	4 1/8" x 1 1/8"
				D8b	4 1/8" x 1 1/8"
				D9	4 1/8" x 1 1/8"
				D9a	4 1/8" x 1 1/8"
				D10	4 1/8" x 1 1/8"
				D12	4 1/8" x 1 1/8"
				D12a	4 1/8" x 1 1/8"
				D12aa	4 1/8" x 1 1/8"
				G1	8" x 2 1/8"



- ★ For Grid Leak Detection—plate volts, 45; grid return to + filament or to cathode
- Either ac or dc may be used on filament or heater, except as specifically noted. For use of dc on ac filament types, decrease stated grid volts by  $\frac{1}{2}$  (approx.) of filament voltage.
- Supply voltage applied through 20000-ohm voltage-dropping resistor.
- Mercury-Vapor Type.
- Grid # 1 is control grid. Grid # 2 is screen. Grid # 3 tied to cathode.
- Grid # 1 is control grid. Grids # 2 and # 3 tied to plate.
- Grids # 1 and # 2 connected together. Grid # 3 tied to plate.
- Grids # 3 and # 5 are screen. Grid # 4 is signal-input control grid.
- Grids # 2 and # 4 are screen. Grid # 1 is signal-input control grid.
- For grid of following tube.
- Both grids connected together, likewise, both plates.
- † Power output is for two tubes at stated plate-to-plate load.
- † For two tubes.
- † This diagram is like the one having the same designation without the prefix G, except that Pin No. 1 has no connection.
- † Obtained preferably by using 70000-ohm voltage-dropping resistor in series with a 90-volt supply.
- This diagram is like the one having the same designation with the prefix G, except that base sleeve is connected to Pin No. 1.
- With tube mounted horizontally and pins No. 4 and No. 8 in a vertical plane (pin No. 4 on top), deflecting electrode No. 1 controls left-hand section of pattern, deflecting electrode No. 2 controls top right-hand section of pattern, deflecting electrode No. 3 controls bottom section of pattern.
- † With separate excitation and triode unit grounded.
- † Each unit.

- Valve is for both units operating at the specified conditions.
- †† This diagram is like the one having the same designation without the prefix G, except that Pin No. 1 is connected to internal shield.
- †† Grids # 2 and # 3 tied to plate.
- Both grids connected together, likewise both cathodes
- This diagram is like the one having the same designation without the prefix G.T. except that the base sleeve is connected to Pin No. 1.
- Maximum.
- Megohms.
- 50000 ohms.
- Grids # 1 and # 2 tied together
- For signal-input control-grid (# 1), control-grid # 3 bias, -3 volts.
- Grids # 2 and # 4 are screen. Grid # 3 is signal-input control grid.
- Note 1: Types with octal bases have *Miniature Cap.* all others have *Small Cap*
- Note 2: Subscript 1 on class of amplifier service (as AB<sub>1</sub>) indicates that grid current does not flow during any part of input cycle.
- Subscript 2 on class of amplifier service (as AB<sub>2</sub>) indicates that grid current flows during some part of the input cycle
- For television damper service.
- Cathode-bias resistor, 180 ohms.
- Superseded by 10-Y. See Power and Gas Tubes Booklet PG-101A.

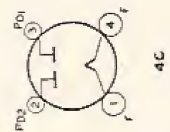
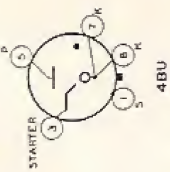
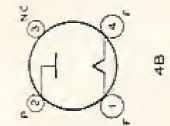
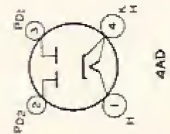
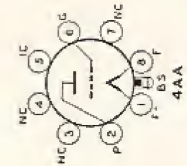
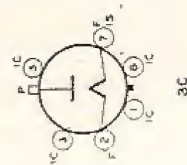
## LEGEND FOR BASE AND ENVELOPE CONNECTION DIAGRAMS

Bottom Views

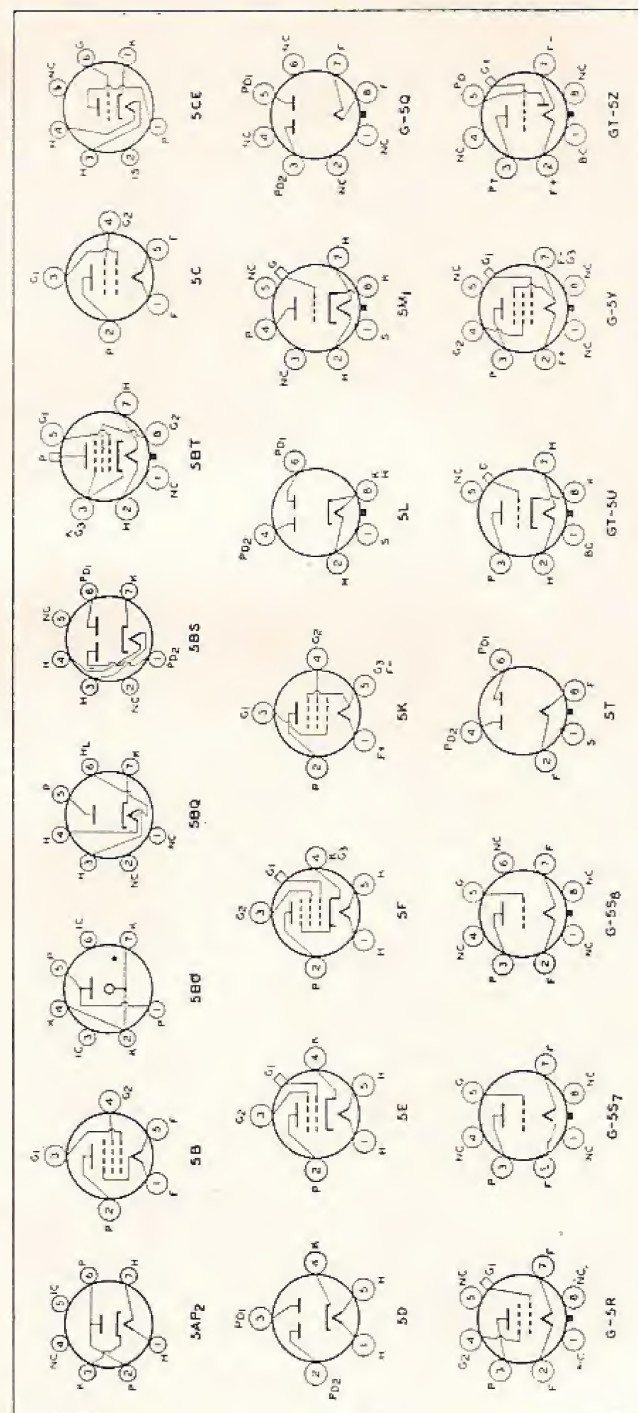
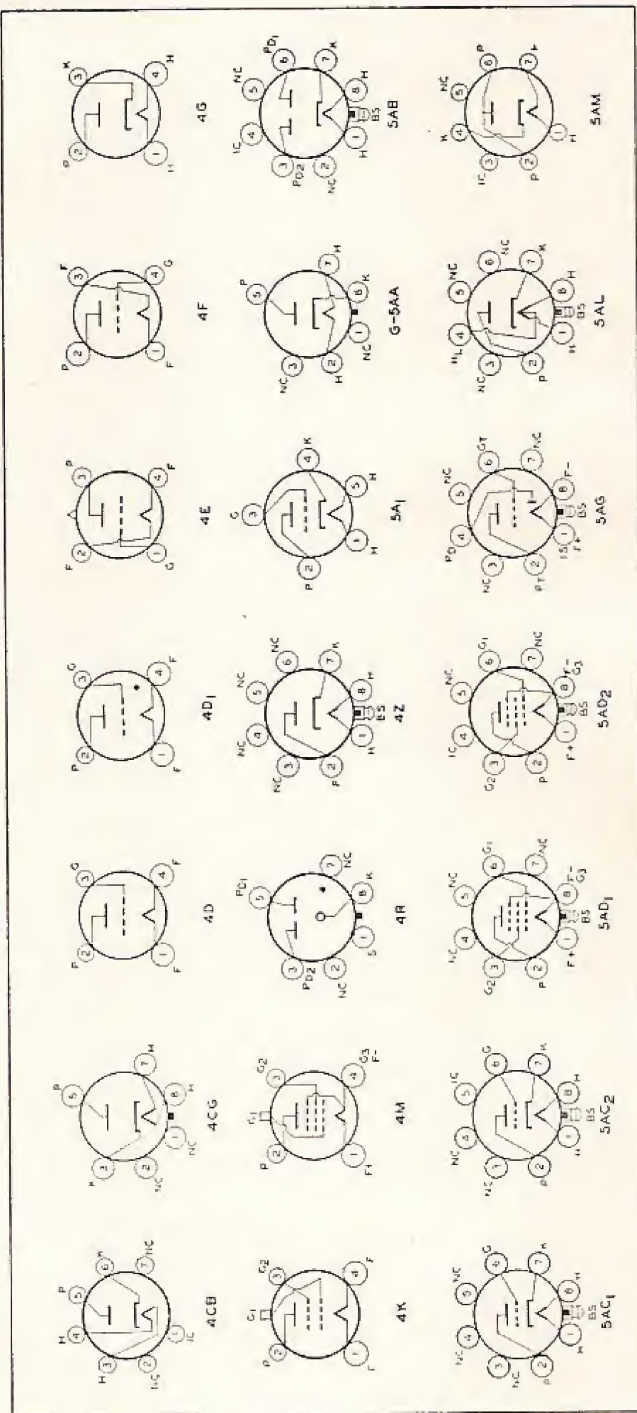
### KEY TO TERMINAL DESIGNATIONS

Subscripts B, D, HP, HX, P, T, and TR indicate, respectively, beam unit, diode unit, heptode unit, hexode unit, pentode unit, triode unit, and tetrode unit in multi-unit types.

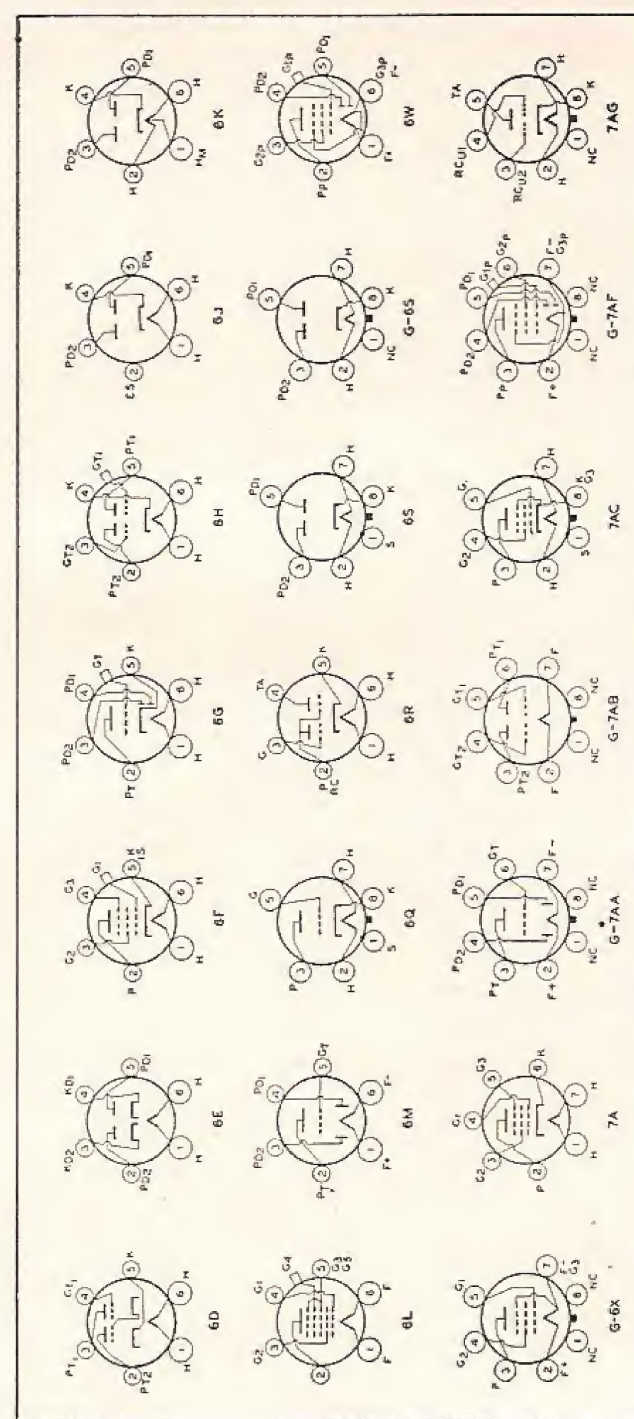
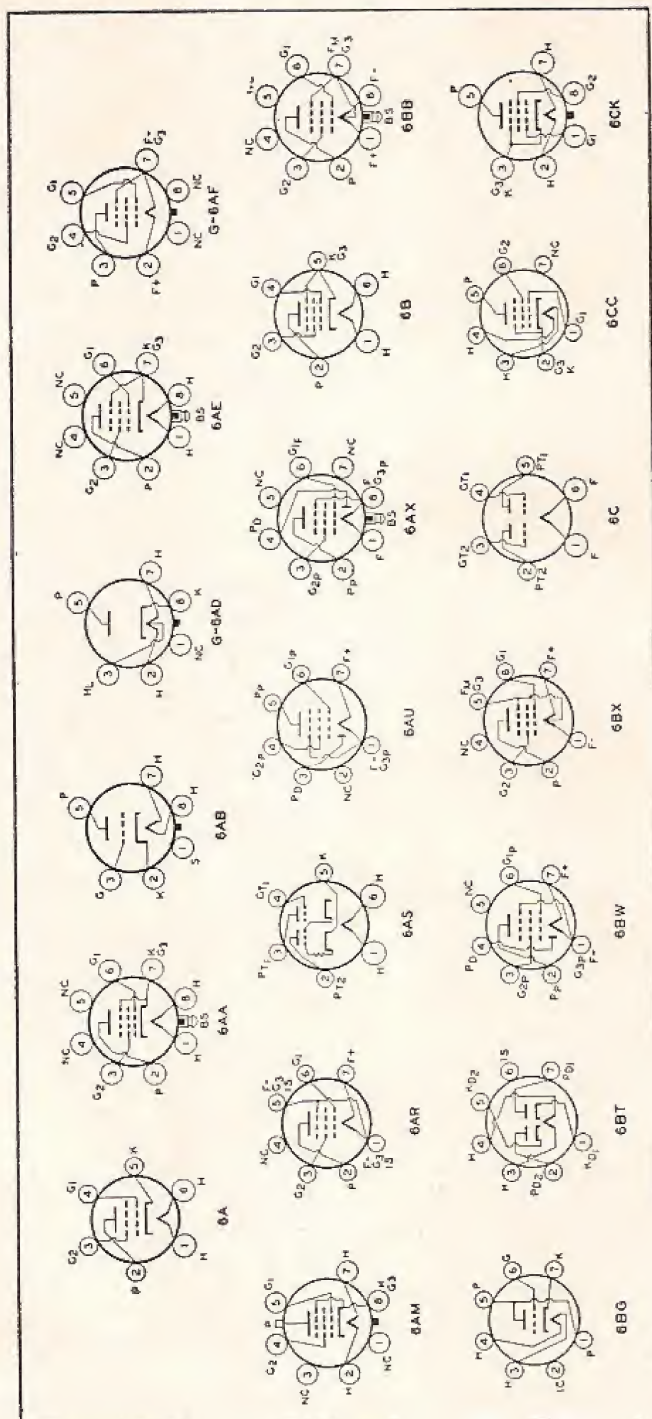
BC = Base Sleeve	G = Grid	IC = Internal Connection- Do Not Use	RC = Ray-Control Electrode
BS = Base Shell	H = Heater	IS = Internal Shield	S = Shell
DJ = Deflecting Electrode	HL = Heater Tap for Panel Lamp	K = Cathode	TA = Target
ES = External Shield	HM = Heater Mid-Tap	NC = No Connection	U = Unit
F = Filament	HS = Heater Shield	P = Plate (Anode)	● = Gas-Type Tube
FM = Filament Mid-Tap			



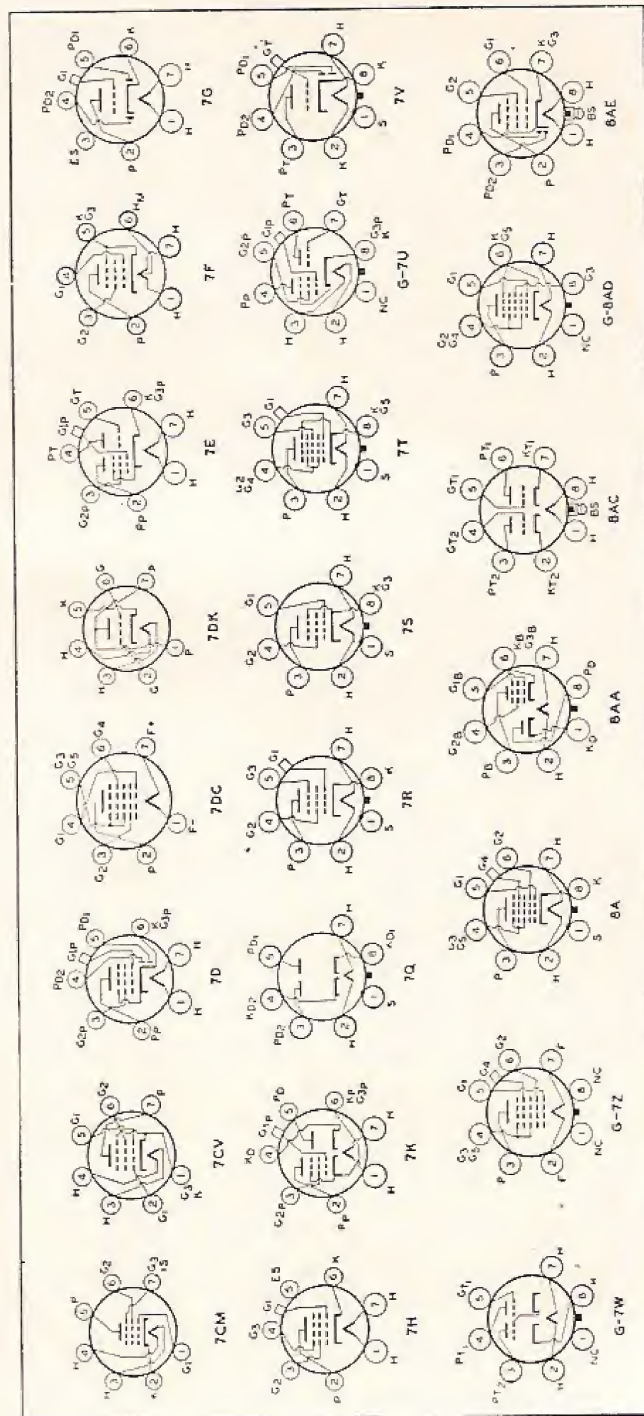
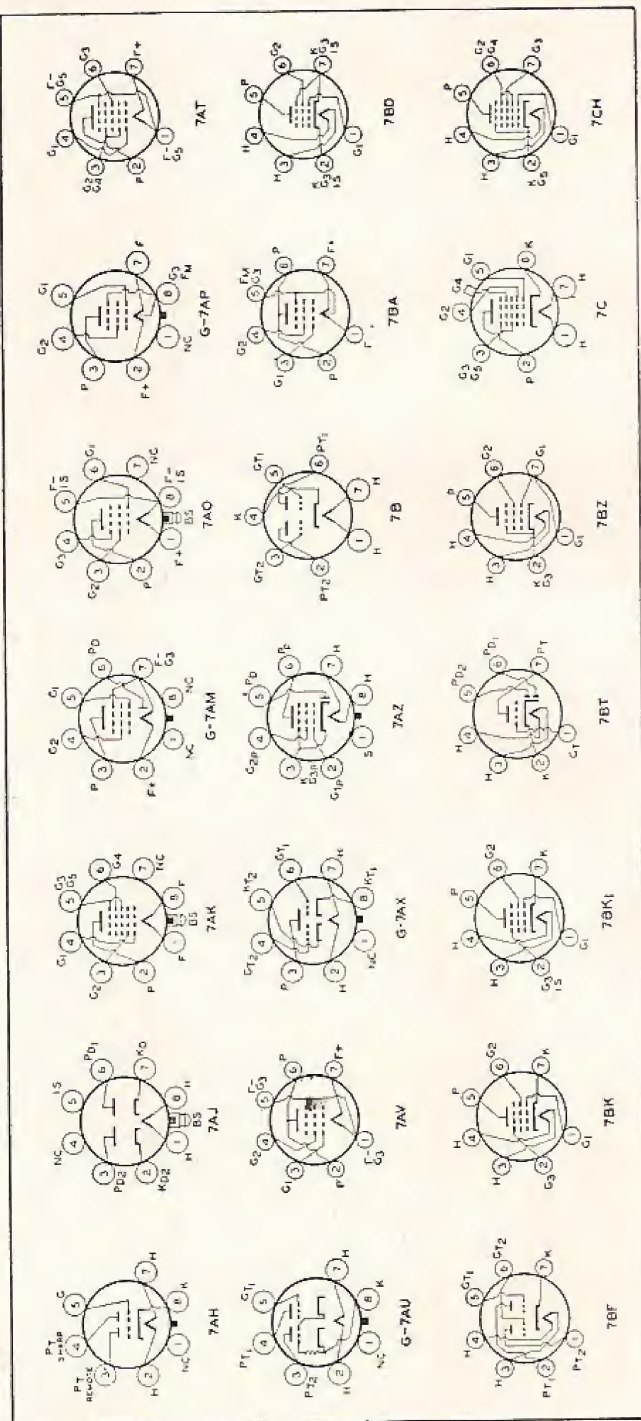








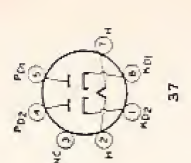
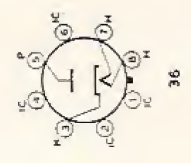
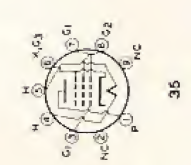
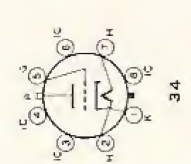
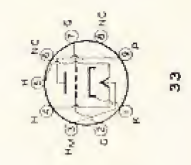
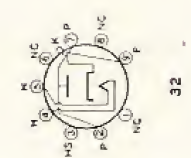
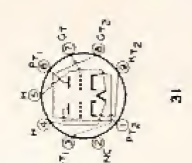
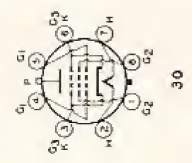
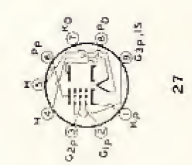
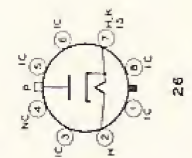
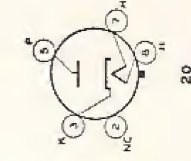
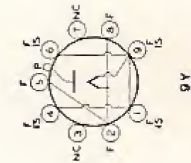
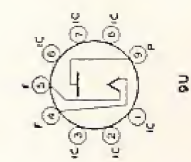
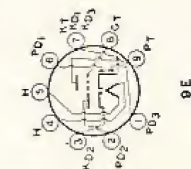
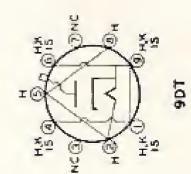
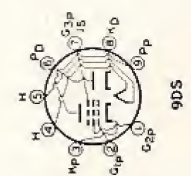
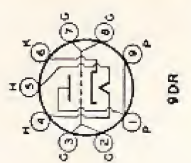
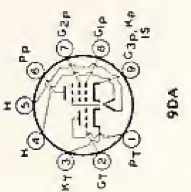
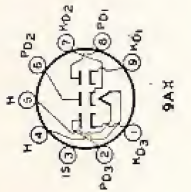
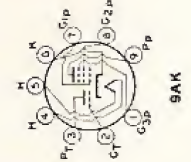
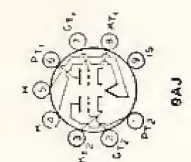
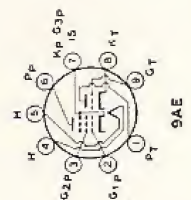














# RCA KINESCOPE CHARACTERISTICS CHART

Data for these types continued on next page.

Type	Envelope	Faceplate <sup>1</sup>	External Coating		Focusing Method	Deflection Method	Ion-Trap Magnet	Apert. Deflection Angle <sup>2</sup> Degrees	Maximum Dimensions Inches			Neck Length Inches
			Max. $\mu$ al	Min. $\mu$ al					Overall Length	Envelope Diameter	Width	
Black-and-White Types												
3KP4	Glass Round	Clear	None	None	E	E $\odot$	None	None	11 $\frac{3}{4}$	3 $\frac{1}{4}$	—	—
5TP4*	Glass Round	Clear†	500	100	E	M	None	50	12 $\frac{1}{4}$	5 $\frac{1}{4}$	—	7 $\frac{1}{2}$
7DP4	Glass Round	Clear	1500	400	E	M	Single	50	14 $\frac{1}{2}$	7 $\frac{1}{2}$	—	8 $\frac{3}{4}$
7JP4	Glass Round	Clear	None	None	E	E $\odot$	None	None	14 $\frac{3}{4}$	7 $\frac{1}{4}$	—	—
9AP4	Glass Round	Clear	None	None	E	M	None	40	21 $\frac{3}{4}$	9 $\frac{1}{4}$	—	10
Same as 10BP4-A, except has clear glass faceplate.												
10BP4	Glass Round	Filterglass	2500	500	M	M	Single	52	18	10 $\frac{1}{2}$	—	8 $\frac{1}{2}$
10FP4-A	Glass Round	Filterglass†	2500	500	M	M	None	50	18	10 $\frac{1}{2}$	—	8 $\frac{1}{2}$
12AP4	Glass Round	Clear	None	None	E	M	None	40	25 $\frac{3}{4}$	12 $\frac{1}{2}$	—	9 $\frac{1}{2}$
12KP4-A	Glass Round	Filterglass†	2500	500	M	M	None	54	18	12 $\frac{1}{2}$	—	7 $\frac{1}{2}$
Same as 12LP4-A, except has clear glass faceplate.												
12LP4	Glass Round	Filterglass	2500	750	M	M	Single	57	19 $\frac{1}{2}$	12 $\frac{1}{2}$	—	8 $\frac{1}{4}$
14EP4/14CP4	Glass Rectangular	Filterglass	2000	750	M	M	Single	65	16 $\frac{3}{4}$	13 $\frac{1}{2}$	12 $\frac{1}{2}$	9 $\frac{1}{2}$
14HP4	Glass Rectangular	Filterglass	2000	750	E	M	Single	65	17 $\frac{1}{2}$	13 $\frac{1}{2}$	12 $\frac{1}{2}$	9 $\frac{1}{2}$
Same as 16AP4-A, except has clear glass faceplate.												
16AP4	Metal Round	Filterglass	None	None	M	M	Single	53	22 $\frac{1}{2}$	16	—	7 $\frac{1}{2}$
16AP4-A	Glass Round	Filterglass	None	None	M	M	Single	60	21	16	—	7 $\frac{3}{4}$
Same as 16GP4-B, except has Filterglass faceplate.												
16GP4	Glass Round	Filterglass	None	None	M	M	Single	60	21	16	—	7 $\frac{3}{4}$
Same as 16GP4-A, except has clear glass faceplate.												
16GP4-A	Metal Round	Fronted Filterglass	None	None	M	M	Single	70	17 $\frac{1}{2}$	16	—	6 $\frac{3}{4}$
16GP4-B	Glass Round	Fronted Filterglass	None	None	M	M	Single	70	17 $\frac{1}{2}$	16	—	6 $\frac{3}{4}$
16GP4-C	Metal Round	Fronted Filterglass	None	None	M	M	Single	70	17 $\frac{1}{2}$	16	—	6 $\frac{3}{4}$

Minimum Screen Size, Inches	High-Voltage Terminal	Base Lug	Maximum Ratings				Typical Operating Conditions				Type
			Final High-Voltage Electrode (ULTOR*) Vols	Focusing Electrode Vols	Grid-No. 2 Vols	Grid-No. 1 Vols	Final High-Voltage Electrode (ULTOR*) Vols	Focusing Electrode Vols	Grid-No. 2 Vols	Grid-No. 1 Vols	
Black-and-White Types											
2 3/4 Diam.	Base Pin	A	2500	1000	∞	200	2000	320 to 600	∞	-38 to -90	3KP4
4 1/4 Diam.	Small Cavity Cap	B	27000	6000	350	150	27000	4320 to 5400	200	-42 to -98	5TP4*
6 Diam.	Small Cavity Cap	B	8000	2400	410	125	6000	1200 to 1650	250	-27 to -63	7DP4
6 Diam.	Base Pin	C	6000	2800	∞	200	6000	1620 to 2400	∞	-72 to -168	7JP4
7 1/4 Diam.	Medium Cap	D	7000	2000	300	125	7000	1190 to 1790	250	-20 to -60	9AP4
Ratings and typical operating conditions are same as for type 10BP4-A.											
9 1/4 Diam.	Small Cavity Cap	E	12000	—	410	125	8000 to 12000	—	250	-27 to -63	10BP4-A
9 1/4 Diam.	Small Cavity Cap	E	12000	—	410	125	8000 to 12000	—	250	-27 to -63	10FP4-A
10 1/4 Diam.	Medium Cap	D	7000	2000	300	125	7000	1190 to 1790	250	-20 to -60	12AP4
11 1/4 Diam.	Small Cavity Cap	E	12000	—	410	125	9000 to 12000	—	250	-27 to -63	12KP4-A
Ratings and typical operating conditions are same as for type 12LP4-A.											
11 Diam.	Small Cavity Cap	E	12000	—	410	125	9000 to 12000	—	250	-27 to -63	12LP4-A
11 1/2 x 8 1/2	Small Cavity Cap	E	14000	—	410	125	10000 to 14000	—	300	-33 to -77	14EP4/14CP4
11 1/2 x 8 1/2	Small Cavity Cap	H	14000	+500 -500	500	125	12000 14000	-50 to +265 -45 to +310	300 300	-33 to -77 -33 to -77	14HP4
Ratings and typical operating conditions are same as for type 16AP4-A.											
14 3/8 Diam.	Metal-Shell Lip	F	14000	—	410	125	9000 to 14000	—	300	-33 to -77	16AP4-A
14 1/2 Diam.	Small Cavity Cap	F	15000	—	410	125	12000 to 15000	—	250	-33 to -77	16DP4-A
Ratings and typical operating conditions are same as for type 16GP4-B.											
14 3/8 Diam.	Metal-Shell Lip	F	14000	—	410	125	12000 to 14000	—	300	-33 to -77	16GP4-B
14 1/2 Diam.	Small Cavity Cap	F	15000	—	410	125	12000 to 15000	—	250	-33 to -77	16GP4-C

Data for these types continued from preceding pages.



Data for these types continued on next page.

Type	Envelope	Facing <sup>6</sup>	External Conductive Coating		Facing Method	Deflection Method	Inc. Top Magnet	Approx. Deflection Angle†	Maximum Dimensions Inches			Neck Length Inches
			Max. Appl.	Min. Appl.					Overall Length	Envelope Diameter	Width	
Black-and-White Types												
16LP4-A	Glass Round	Filterglass	2000	750	M	M	Single	52	22½	16	—	7½
16RP4/16KP4	Glass Rectangular	Filterglass	2000	750	M	M	Single	65	19½	16½	14½	7½
Same as 16RP4/16KP4, except has aluminized screen.												
16TP4	Glass Rectangular	Filterglass	2000	750	M	M	Single	65	18½	16½	14½	6½
16WP4-A	Glass Round	Filterglass	1500	750	M	M	Single	70	18½	16	—	7½
17AVP4	Glass Rectangular	Filterglass	1500	750	E	M	Single	85*	16	16½	15½	6½
17BP4-A	Glass Rectangular	Filterglass	1500	750	M	M	Single	65	19½	16½	15½	7½
Same as 17BP4-A, except has aluminized screen.												
17CP4	Metal Rectangular	Fronted Filterglass	None	None	M	M	Single	66	19	17	16½	7½
Same as 17CP4, except has Filterglass faceplate.												
17GP4	Metal Rectangular	Fronted Filterglass	None	None	E	M	Single	66	19½	17	16½	7½
17HP4/17RP4	Glass Rectangular	Filterglass	1500	750	E	M	Single	65	19½	16½	15½	7½
17HP4-B	Glass Rectangular	Filterglass†	1500	750	E	M	Single	65	19½	16½	15½	7½
17JP4	Glass Rectangular	Filterglass	750	500	M	M	Single	65	19½	16½	15½	7½
17LP4/17VP4	Glass Rectangular	Filterglass**	1500	750	E	M	Single	65	19½	16½	15½	7½
17IP4-A	Glass Rectangular	Filterglass†**	1500	750	E	M	Single	65	19½	16½	15½	7½
17QP4	Glass Rectangular	Filterglass**	1500	750	M	M	Single	65	19½	16½	15½	7½
17TP4	Metal Rectangular	Fronted Filterglass	None	None	E	M	Single	66	19½	17	16½	7½

Minimum Screen Size Inset	High-Voltage Terminal	Bar-Ing	Maximum Ratings			Typical Operating Conditions			Type	
			Final High Voltage (OUTER) VARI	Facing Electrode VARI	Grids No. 2 Box VARI	Final High Voltage (OUTER) VARI	Facing Electrode VARI	Grids No. 2 VARI		
Black-and-White Types										
14½ Diam.	Small Cavity Cap	E	14000	—	410	125	12000 to 14000	—	300	16LP4-A
13½ x 10½	Small Cavity Cap	E	16000	—	410	125	12000 to 16000	—	300	16RP4/16KP4
Ratings and typical operating conditions are same as for type 16RP4/16KP4.										
13½ x 10½	Small Cavity Cap	E	14000	—	410	125	12000 to 14000	—	300	16RP4-A/16KP4-A
14½ Diam.	Small Cavity Cap	E	16000	—	410	125	12000 to 16000	—	250	16TP4
14½ x 10½	Small Cavity Cap	H	16000	+1000 -500*	500	125	14000 -55 to +310 -65 to +350	300 -33 to -77	300	16WP4-A
14½ x 10½	Small Cavity Cap	E	16000	—	410	125	12000 to 16000	—	300	17AVP4
Ratings and typical operating conditions are same as for type 17BP4-A.										
14½ x 10½	Metal-Shell Lip	F	16000	—	410	125	12000 to 16000	—	300	17BP4-A
Ratings and typical operating conditions are same as for type 17CP4.										
14½ x 10½	Metal-Shell Lip	G	16000	5000	500	125	12000 14000	2040 to 2760 2380 to 3220	300 300	17CP4
14½ x 10½	Small Cavity Cap	H	16000	+1000 -500*	500	125	14000	-55 to +300 -65 to +350	300 300	17GP4
14½ x 10½	Small Cavity Cap	H	16000	+1000 -500*	500	125	14000	-55 to +300 -65 to +350	300 300	17HP4/17RP4
14½ x 10½	Small Cavity Cap	E	18000	—	410	125	14000 to 18000	—	300	17HP4-B
14½ x 10½	Small Cavity Cap	H	16000	+1000 -500*	500	125	14000	-55 to +300 -65 to +350	300 300	17JP4
14½ x 10½	Small Cavity Cap	H	16000	+1000 -500*	500	125	14000	-55 to +300 -65 to +350	300 300	17LP4/17VP4
14½ x 10½	Small Cavity Cap	H	16000	+1000 -500*	500	125	14000	-55 to +300 -65 to +350	300 300	17LP4-A
14½ x 10½	Small Cavity Cap	J	16000	—	410	125	12000 to 16000	—	300	17QP4
14½ x 10½	Metal-Shell Lip	G	16000	+1000 -500*	500	125	14000	-55 to +300 -65 to +350	300 300	17TP4


Data for these types continued from preceding pages.



Data for these types continued on next page.

Type	Envelope	Facelate <sup>6</sup>	External Coatings		Facilit Method	Deflection Method	Ins. Trap Magnet	Apex Deflection Angle Degree	Maximum Dimensions Inches			Neck Length Inset
			Max. <sub>pld</sub>	Min. <sub>pld</sub>					Overall Length	Endview Diameter	Width	
Black-and-White Types												
19AP4	Same as 19AP4-B, except has clear glass facelate.											
19AP4-A	Same as 19AP4-B, except has Filterglass facelate.											
19AP4-B	Metal Round	Frosted Filterglass	None	None	M	M	Single	66	22	18%	—	7½
19AP4-D	Same as 19AP4-B, except has frosted clear glass facelate.											
20CP4	Glass Rectangular	Filterglass	None	None	M	M	Single	66	21½	20%	18½	15¼
20DP4-A/ 20CP4-A	Glass Rectangular	Filterglass	750	500	M	M	Single	66	21½	20%	18½	15¼
20DP4-C/ 20CP4-D	Glass Rectangular	Filterglass†	750	500	M	M	Single	66	21½	20%	18%	15¼
20MP4	Glass Rectangular	Filterglass	750	500	E	M	Single	66	22½	20%	18½	15¼
21ACP4-A	Glass Rectangular	Filterglass†**	750	500	M	M	Single	85•	20½	21½	20%	16½
21AIP4-A	Glass Rectangular	Filterglass†	750	500	E	M	Single	85•	20%	21½	20%	16½
21ALP4-B	Glass Rectangular	Filterglass†	750	500	E	M	Single	85•	20%	21½	20%	16½
21AMP4-A	Glass Rectangular	Filterglass†	750	500	M	M	Single	85•	20%	21½	20%	16½
21AP4	Metal Rectangular	Frosted Filterglass	None	None	M	M	Single	66	22½	21	19½	15¼
21ATP4	Glass Rectangular	Filterglass†	1500	1200	E	M	Single	85•	20%	21½	20%	16½
21AVP4/ 21AUP4	Glass Rectangular	Filterglass	1500	1200	E	M	Single	67**	23½	21½	20%	16½
21AVP4-A/ 21AUP4-A	Glass Rectangular	Filterglass†	1500	1200	E	M	Single	67**	23½	21½	20%	16½
21AWP4	Glass Rectangular	Filterglass†	1500	1200	M	M	Single	67**	23½	21½	20%	16½
21EP4	Same as 21EP4-A, except has no external conductive coating.											
21EP4-A	Glass Rectangular	Filterglass**	750	500	M	M	Single	65	23½	21½	20%	15¾
21EP4-B	Same as 21EP4-A, except has aluminized screen.											

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Minimum Screen Size Inches	High-Voltage Terminal	Basic Rating	Full-Load Maximum Output (ULTRON®) Value	Feeding Electrode Value	Grids No. 1 and 2 Bias Value	Grids No. 1 and 2 Bias Value	High-Voltage (ULTRON®) Value	Typical Operating Conditions	Typical Operating Conditions	Grids No. 1 and 2 Value	Type
											
<b>Black-and-White Types</b>											
Ratings and typical operating conditions are same as for type 19AP4-B. Ratings and typical operating conditions are same as for type 19AP4-B.											
17½ Diam.	Metal Shell Lip	F	16000	—	410	125	12000 to 19000	—	300	—33 to —77	19AP4
Ratings and typical operating conditions are same as for type 19AP4-B.											
17 x 12½	Small Cavity Cap	F	18000	—	410	125	14000 to 18000	—	300	—33 to —77	20CP4-A
17 x 12½	Small Cavity Cap	F	18000	—	410	125	14000 to 18000	—	300	—33 to —77	20CP4-A
17 x 12½	Small Cavity Cap	F	18000	—	410	125	14000 to 18000	—	300	—33 to —77	20CP4-C
17 x 12½	Small Cavity Cap	H	16000	+1000 —500*	500	125	14000 to 18000	—55 to +300 —65 to +350	300 300	—33 to —77 —33 to —77	20MP4
19½ x 15	Small Cavity Cap	E	20000	—	500	125	13000 to 19000	—	300	—28 to —72	21ACP4-A
19½ x 15	Small Cavity Cap	H	18000	+1000 —500*	500	125	16000 to 18000	—65 to +350 —75 to +400	300 400	—33 to —77 —42 to —101	21ALP4-A
19½ x 15	Small Cavity Cap	H	20000	+1000 —500*	500	125	16000 to 18000	—65 to +350 —75 to +400	300 400	—33 to —77 —42 to —101	21ALP4-B
19½ x 15	Small Cavity Cap	F	18000	—	500	125	14000 to 18000	—	300	—33 to —77	21AMP4-A
18½ x 13½ In	Metal Shell Lip	F	18000	—	410	125	14000 to 18000	—	300	—33 to —77	21AP4
Ratings and typical operating conditions are same as for type 21ALP4-A.											
19½ x 15	Small Cavity Cap	H	18000	1000 —500*	500	125	14000 to 18000	—55 to +300 —72 to +396	300 300	—28 to —72 —28 to —72	21AVP4/21AUP4
19½ x 15	Small Cavity Cap	H	18000	1000 —500*	500	125	14000 to 18000	—55 to +300 —75 to +400	300 400	—33 to —77 —42 to —101	21AVP4-A/21AUP4-A
19½ x 15	Small Cavity Cap	F	18000	—	500	125	14000 to 18000	—	300	—33 to —77	21AWP4
Ratings and typical operating conditions are same as for type 21EP4-A.											
19½ x 13½	Small Cavity Cap	J	18000	—	500	125	14000 to 18000	—	300	—33 to —77	21EP4
Ratings and typical operating conditions are same as for type 21EP4-A.											
19½ x 13½	Small Cavity Cap	J	18000	—	500	125	14000 to 18000	—	300	—33 to —77	21EP4-B

Data for these types continued from preceding pages.

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Data for these types continued on next page.

Type	Envelope	Faceplate <sup>φ</sup>	External Conductive Coating		Focusing Method	Deflection Method	Ion-Trap Magnet	Approx. Deflection Angle Degrees	Maximum Dimensions Inches			Neck Length Inches	
			Min. rad	Max. rad					Overall Length	Envelope Diameter	Width		Height
Black-and-White Types													
21FP4-A	Glass Rectangular	Filterglass**	750	500	E	M	Single	65	23 3/8	21 1/2	20 7/8	15 3/4	7 1/2
21FP4-C			Same as 21FP4-A, except has aluminized screen.										
21MP4	Metal Rectangular	Frosted Filterglass	None	None	E	M	Single	66	22 5/8	21	19 7/8	15 7/8	7 1/2
21VP4	Glass Rectangular	Filterglass	750	500	E	M	Single	65	23 1/2	21 1/2	20 3/8	15 1/2	7 1/2
21YP4-A			Same as 21YP4, except has aluminized screen.										
21ZP4-A	Glass Rectangular	Filterglass	750	500	M	M	Single	65	23 1/2	21 1/2	20 3/8	15 1/2	7 1/2
21ZP4-B			Same as 21ZP4-A, except has aluminized screen.										
24CP4-A	Glass Rectangular	Filterglass	750	500	M	M	Single	85*	21 1/2	24 1/8	22 1/8	19	7 1/2
24DP4-A	Glass Rectangular	Filterglass†	500	750	E	M	Single	85*	21 1/2	24 1/8	22 1/8	18 3/8	7 1/2
24YP4	Glass Rectangular	Filterglass†	1500	1200	E	M	Single	85*	21 1/2	24 1/8	22 1/8	18 3/8	7 1/2
27MP4	Metal Rectangular	Frosted Filterglass†	None	None	M	M	Single	85*	22 3/8	27 1/8	25 3/8	20 1/8	7 1/2
Color Types													
15GP22**	Glass Round	Clear	3000	1500	E	M	None	45	26 1/8	14 3/8*	—	—	10 3/8
21AXP22	Metal Round	Filterglass†	None	None	E	M	None	70	25 3/8	20 1/8†	—	—	9 3/8

E = Electrostatic.  
Note: All kinescopes shown with 0.6-amp-  
per-inch beam current, except types 9AP4 and 12AP4  
which have 2.5-volt/21-ampere heaters.  
Light face = Discontinued type.  
† Serrated, unless otherwise specified.  
‡ At facplate.

M = Magnetic.  
\*\* Types 9AP4 and 12AP4  
which have 2.5-volt/21-ampere heaters.  
† Serrated, unless otherwise specified.  
‡ At facplate.

† Unless aluminized screen.  
\*\* Cylindrical facplate.  
on Grid No. 2 connected to final high-voltage electrode within tube.  
\* Projection type.  
† Frosted within tube.  
‡ Projection type.  
§ Diagonal deflection angle is 99°.  
|| Diagonal deflection angle is 72°.

† For rectangular tubes, horizontal deflection angle is 70° unless otherwise specified to take care of the condition where an ac voltage is provided for dynamic focusing.  
\*\* Diagonal deflection angle is 72°.

E = Electrostatic.  
 Note: All kinescopes shown have 6A4 and 12AP4 heaters.  
 Light face = Discontinued type.  
 φ Special, unless otherwise specified.  
 \* At faceplate.  
 † At other lip-terminal.  
 \*\* This type has a flat, aluminized, filterglass screen plate.  
 ‡ Unless aluminized screen.  
 †† Cylindrical faceplate.  
 ‡‡ On Grid No. 2 connected to final high-voltage electrode within tube.  
 • Corresponding diagonal deflection angle is 90°.  
 † At other lip-terminal.  
 ‡‡ This type has a flat, aluminized, filterglass screen plate.  
 ‡‡ Diagonal deflection angle is 72°.

Data for these types continued from preceding pages.

Minimum Screen Size Inches	High-Voltage Terminal	Base Lug	Maximum Ratings				Typical Operating Conditions				Type
			Final High-Voltage (ULIOP*) Vols	Focusing Electrode (ULIOP*) Vols	Grid No. 1 Vols	Grid No. 2 Vols	Final High-Voltage (ULIOP*) Vols	Focusing Electrode (ULIOP*) Vols	Grid No. 1 Vols	Grid No. 2 Vols	
<b>Black-and-White Types</b>											
19 1/2 x 13 3/8	Small Cavity Cap	H	18000	+1000 -500*	500	125	14000 16000	-55 to +300 -65 to +350	300 300	21FP4-A	
Ratings and typical operating conditions are same as for type 21FP4-A.											
18 3/4 x 13 1/8	Metal-Shell Lip	G	16000	+1000 -500*	500	125	14000 16000	-55 to +300 -65 to +350	300 300	21MP4	
19 1/2 x 14 3/8	Small Cavity Cap	H	18000	+1000 -500*	500	125	16000 18000	-65 to +350 -70 to +395	300 300	21YP4	
Ratings and typical operating conditions are the same as for type 21YP4.											
19 1/2 x 14 3/8	Small Cavity Cap	J	15000	—	500	125	16000 to 18000	—	300	21ZP4-A	
Ratings and typical operating conditions are the same as for type 21ZP4-A.											
21 1/4 x 16 3/4	Small Cavity Cap	J	20000	—	500	125	16000 to 18000	—	300	21ZP4-B	
21 1/4 x 16 3/4	Small Cavity Cap	H	20000	+1500 -500*	500	125	16000 19000	-65 to +350 -75 to +400	300 400	24CP4-A	
Ratings and typical operating conditions are the same as for type 24DP4-A.											
23 3/8 x 18 3/8	Metal-Shell Lip	F	18000	—	500	125	16000 to 18000	—	300	24YP4	
<b>Color Types</b>											
11 1/2 x 8 5/8	Metal Flange	K	20000	5000	500 <sup>a</sup>	200 <sup>a</sup>	For additional data, refer to technical bulletin available on request.				15GP22
19 5/8 x 15 1/4	Metal Flange	L	25000	6000	800 <sup>a</sup>	400 <sup>a</sup>	For additional data, refer to technical bulletin available on request.				21AXP22

\* ULTOR is defined as the electrode, or the electrode in combination with one or more additional electrodes connected within the tube to it, which is supplied the highest potential, which controls the electrons in the beam prior to its deflection.

○ Deflection Factors (volts def/in.) for typical operating conditions shown:

Type	D/L & D/L (answer times)	D/L & D/L (nearest base)
3KP4	100 to 136	76 to 104
7JP4	166 to 246	150 to 204

<sup>a</sup> Each gun.

Positive bias value = 0 volt; positive peak value = 2 volts.

For visual extinction of undeflected focused spot.

The values for visual extinction of focused raster bias are given in volts less negative than the indicated values.

For base diagram, refer to diagram F.

† Positive bias value = 0 volts; positive peak value = 4 volts.  
 \* For additional data, refer to technical bulletin available on request.  
 † For additional data, refer to technical bulletin available on request.  
 • ULTOP is defined as the electrode, or the electrode connected within the tube to it, to which is applied the highest dc voltage for accelerating the electrons in the beam prior to its deflection.  
 †† For base diagram, refer to diagram F.  
 \* Each gun.



# RCA QUICK-SELECTION GUIDE

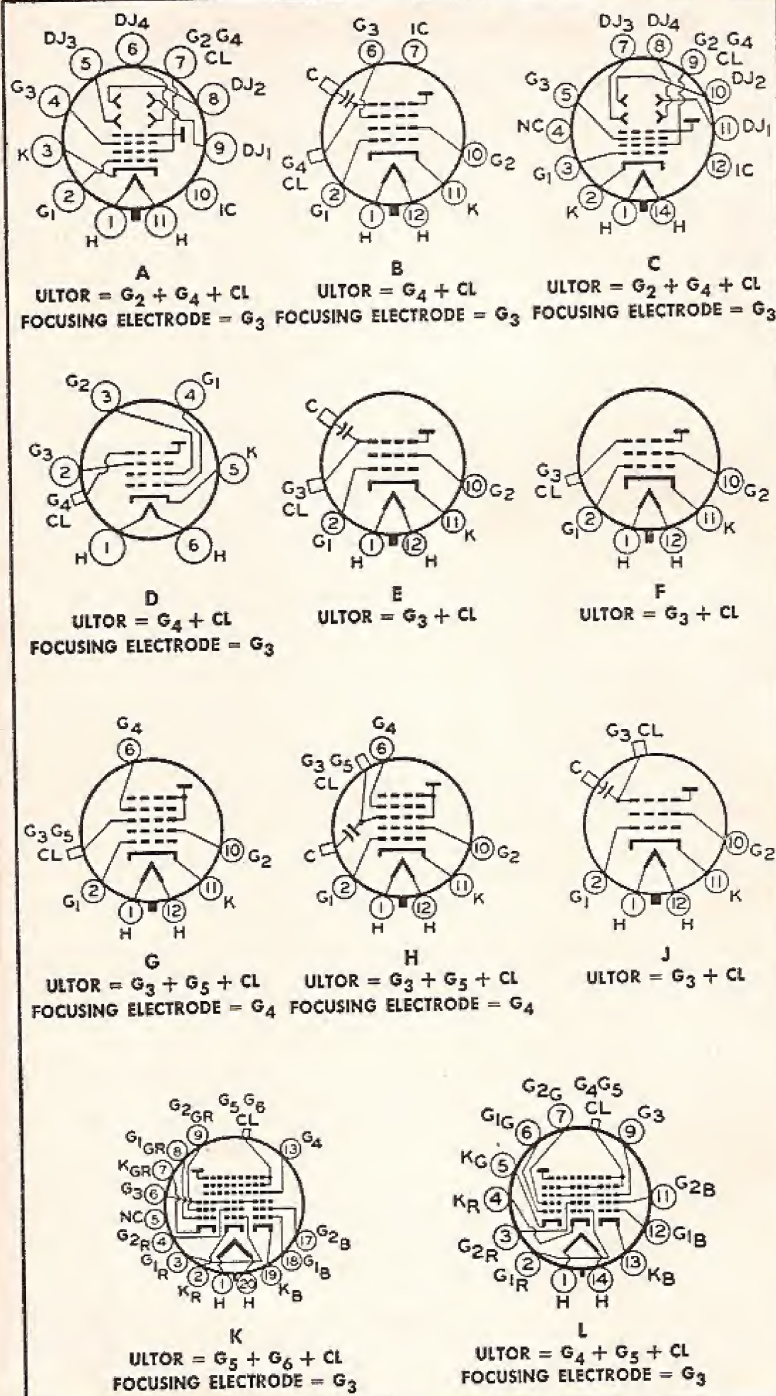
## Power, Cathode-Ray, Photo-, and Special Tubes for Radio and Industry

### VACUUM POWER TUBES

TYPE	CATH- ODE VOLTS	MAXIMUM DIMEN- SIONS INCHES		AMPLIFI- CATION FACTOR	MAX. PLATE RATINGS*	
		Length	Diam.		DC Volts	Dissi- pation Watts
TRIODES (AIR-COOLED)						
3C33	12.6	3 1/8	2 3/8	11b	±2000	15
10-Y	7.5	5 3/8	2 1/8	8	450	15
800	7.5	6 3/8	2 1/8	15	1250	35
801-A	7.5	5 3/8	2 1/8	8	600	20
805	10	8 1/2	2 5/8	variable	1500	125
806	5	10	3 1/8	12.6	3300†	225†
808	7.5	6 1/8	2 1/8	47	2000†	75†
809	6.3	6 9/16	2 7/8	50	1000†	30†
810	10	8 3/4	2 1/4*	36	2500†	175†
811-A	6.3	6 1/2	2 7/8	160	1500†	65†
812-A	6.3	6 1/2	2 7/8	29	1500†	65†
826	7.5	3 1/4	2 3/8	31	1000†	55†
830-B	10	6 1/2	2 1/8	25	1000	60
833-A	10	8 1/8	4 3/2	35	3300†	350†
834	7.5	6 7/8	2 1/8	10.5	1250	50†
838	10	7 7/8	2 7/8	variable	1250	100
841	7.5	5 3/8	2 1/8	30	450	15
842	7.5	5 3/8	2 1/8	3	425	12
845	10	7 7/8	2 5/8	5.3	1250	100
849	11	14 3/8	4 1/8	19	2500	400
851	11	17 5/8	6 1/8	20.5	2500	750
1623	6.3	6 9/16	2 7/8	20	1000†	30†
1626	12.6	4 1/8	1 7/8	5	250	5
5556	4.5	4 1/2	1 5/8	8.5	350	10
8000	10	8 3/4	2 1/4*	16.5	2500†	175†
8003	10	8 1/2	2 7/8	12	1350	100
8005	10	6 1/2	2 7/8	20	1500†	85†
8012-A	6.3	3 1/8	1 7/8*	18	1000	40
8025-A	6.3	4 1/8	1 3/4*	18	1000†	30†

†For Intermittent Commercial and Amateur Service.

\*Absolute values for Continuous Commercial Service, unless other-  
wise specified. b Per Unit. \*Maximum Radius.





# RCA QUICK-SELECTION GUIDE

## VACUUM POWER TUBES (cont'd)

TYPE	CATH- ODE VOLTS	MAXIMUM DIMEN- SIONS INCHES		AMPLIFI- CATION FACTOR	MAX. PLATE RATINGS*	
		Length	Diam.		DC Volts	Dissi- pation Watts
TRIODES (WATER-COOLED)						
9C21	19.5	24 1/2	9 1/2	40	17000	40000
207	22	20 1/4	6 1/2*	20	15000	10000
862-A	33	60 3/8	10*	45	20000	100000
880	12.6	11 3/8	7	20	10500	20000
889-A	11	10 1/4	3 5/8	21	8500	5000
891	11#	20 7/8	6 1/2*	8.5	12000	6000
892	11#	20 7/8	6 1/2*	50	15000	10000
893-A	20#	26 3/4	6 3/8*	34.5	20000	20000
898-A	33#	60 3/8	10*	45	20000	100000
5770	11	24 1/2	9 1/2	41	17000	50000
5771	7.5	11 1/2	7	20	12500	22500
5831	6	38 3/4	9 1/2	30	16000	150000
6383	6.3	4 1/2	1 3/4	27	1500	600

## TRIODES (FORCED-AIR-COOLED)

2C39-A	6.3	2 3/4	1 7/16	100	1000	100
4C33	5	4 7/8	2 1/8	25	13000†	250†
9C22	19.5	25	17	41	17000	20000
9C25	6	17 3/8	14 1/4	32	11500	17500
833-A	10	8 1 1/2	4 1 1/2	35	4000	450
889R-A	11	11 7/8	5 1/2*	21	8500	5000
891-R	11#	22	6 1/2*	8.5	10000	4000
892-R	11#	22	6 1/2*	50	12500	4000
893A-R	20#	28	8 1 1/2*	34.5	20000	20000
5588	6.3	3 1 1/2	1 3/4	16	1000	200
5592	11	17 3/8	14 1/4	32	11500	17500
5604-A	11	13 3/4	5 1/2*	20	12500	10000
5671	11	25	16 1 1/2	39	15000	25000
5713	3.3	4 7/8	2 1/8	25	1500	250
5762/7C24	12.6	7 1/8	4 1 1/2	29	6200	3000
5786	11	9 5/8	2 1 1/2	32	3000	600
5946	6.3	3 1 1/2	1 3/4	27	7500*	250
6161	6.3	3 1 1/2	1 3/4	27	1600	250

## TETRODES (AIR-COOLED)

4-65A	6	4 3/8	2 3/8	5§	3000	65
4-125A/4D21	5	5 1 1/2	2 3/4	5.9§	3000	125
860	10	8 3/4	4 1/4*	1100	3000	100
861	11	17 5/8	6 5/8*	2400	3500	400
865	7.5	5 3/4	2 1/8	750	750	15

\*Maximum Radius. #Per Section. §Grid-Screen Mu-Factor.  
 •Absolute values for Continuous Commercial Service.  
 †Pulsed Oscillator Operation—Class C Plate Modulated.  
 ★Peak Positive-Pulse Plate-Supply Volts.

# RCA QUICK-SELECTION GUIDE

## VACUUM POWER TUBES (cont'd)

TYPE	CATH- ODE VOLTS	MAXIMUM DIMEN- SIONS INCHES		TRANS- CON- DUC- TANCE	MAX. PLATE RATINGS*	
		Length	Diam.		DC Volts	Dissi- pation Watts
TETRODES (WATER-COOLED)						
8D21	3.2	12 <sup>9</sup> / <sub>32</sub>	5 <sup>3</sup> / <sub>4</sub>	5§b	6000	6000
TETRODES (FORCED-AIR-COOLED)						
4-250A/5D22	5	6 <sup>3</sup> / <sub>8</sub>	3 <sup>9</sup> / <sub>8</sub>	4000	4000	250
4-1000A	7.5	9 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>4</sub>	7§	6000	1000
4X150A	6	2 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	5§	1250	150
4X500A	5	4 <sup>3</sup> / <sub>8</sub>	2 <sup>9</sup> / <sub>8</sub>	6.2§	4000	500
827-R	7.5	6 <sup>3</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	16§	3500	800
6166	5	11 <sup>5</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>2</sub>	10§	6600	10000
6181	120	7 <sup>7</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>2</sub>	8§	2000	2000

## BEAM POWER TUBES AND PENTODES (AIR-COOLED)

2E24	6.3	3 1 1/2	1 5/8	3200	700☆	18.5☆
2E26	6.3	3 1 1/2	1 5/8	3500	700☆	18.5☆
3E22	6.3/12.6	4 5/8	2 3/8	4000	600☆	35☆
3E29— Similar to type 829-B but for pulsed operation.						
4E27/8001	5	6 1/8	2 1 1/2	2800	4000	75
4E27A/5-125B	5	6 1/8	2 3/4	2150	4000	125
802	6.3	5 3/4	2 1/8	2250	600†	13†
803	10	9 1/4	2 1/8	4000	2000	125
804	7.5	7 1 1/2	2 1/8	3250	1500†	50†
807	6.3	5 3/4	2 1/8	6000	750†	30†
813	10	7 1/2	2 1/8	3750	2250†	125†
814	10	7 1 1/2	2 1/8	3300	1500†	65†
815	6.3/12.6	4 5/8	2 3/8	4000	500†	25†
828	10	7 1 1/2	2 1/8	2700	1500†	80†
829-B	6.3/12.6	4 5/8	2 3/8	8500	750†	45†
832-A	6.3/12.6	3 1 1/2	2 3/8	3500	750†	15†
837	12.6	5 3/4	2 1/8	3400	500	12
1613	6.3	3 1/4	1 5/8	2500	350	10
1614	6.3	4 5/8	1 5/8	6050	450†	25†
1619	2.5	4 5/8	1 5/8	4500	400	15
1624	2.5	5 3/4	2 1/8	4000	600	25
1625	12.6	5 3/4	2 1/8	6000	750†	30†
5618	3.0/6.0	2 5/8	3/4	3600	300†	5†
5763	6	2 5/8	7/8	7000	300	12
5894	6.3/12.6	4 1 1/2	1 1 1/2	8.2§	600	40
6146	6.3	3 1 1/2	1 3/4	4.5§	750†	25†
6159	Same as 6146 but has 26.5-volt heater					
6293	See Technical Bulletin					
6417	12.6	2 5/8	7/8	Refer to 5763		
6524	6.3	3 1/8	1 1/4	4500	600	25

## BEAM POWER TUBES AND PENTODES (WATER-COOLED)

6448	1.35/2.70	7 3/4	11 3/8	6§	7000	26000
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•Absolute values for Continuous Commercial Service.  
 †For Intermittent Commercial and Amateur Service.  
 §Grid-Screen Mu-Factor. ☆For Intermittent Mobile Service.



## RCA QUICK-SELECTION GUIDE

### GLOW-DISCHARGE (COLD-CATHODE) TUBES

TYPE	MAXIMUM DIMENSIONS INCHES		OPERATING VOLTS	OPERATING CURRENT DC MA.	
	Length	Diam.		Min.	Max.
VOLTAGE-REGULATOR TYPES					
OA2	2 $\frac{5}{8}$	3 $\frac{1}{4}$	151	5	30
OA3	4 $\frac{1}{8}$	1 $\frac{1}{8}$	75	5	40
OB2	2 $\frac{5}{8}$	3 $\frac{1}{4}$	108	5	30
OC3	4 $\frac{1}{8}$	1 $\frac{1}{8}$	108	5	40
OD3	4 $\frac{1}{8}$	1 $\frac{1}{8}$	153	5	40
991	1 $\frac{1}{8}$	5 $\frac{7}{8}$	59	0.4	2
5651*	2 $\frac{1}{8}$	3 $\frac{1}{4}$	87	1.5	3.5
6073	2 $\frac{5}{8}$	3 $\frac{1}{4}$	151	5	30
6074	2 $\frac{5}{8}$	3 $\frac{1}{4}$	108	5	30

#### MAX. RATINGS

TYPE	DIMENSIONS		Peak Anode Volts	Peak Cathode Ma.	Av. Cathode Ma.
	INCHES				
	Length	Diam.			
RELAY TYPES					
OA4-G	4 $\frac{1}{8}$	1 $\frac{1}{8}$	225	100	25
IC21	2 $\frac{5}{8}$	1 $\frac{1}{8}$	180	100	25
5823	2 $\frac{1}{8}$	$\frac{3}{4}$	200	100	25

### RECTIFIERS

TYPE	CATHODE VOLTS	MAXIMUM DIMENSIONS INCHES		MAX. PLATE OR ANODE RATINGS	
		Length	Diam.	Peak Inv. Volts	Amp Av.
VACUUM TYPES					
2V3-G	2.5	4 $\frac{1}{2}$	1 $\frac{9}{16}$	16500	0.002
2X2-A	2.5	4 $\frac{1}{2}$	1 $\frac{9}{16}$	12500	0.0075
5R4-GY	5	5 $\frac{3}{8}$	2 $\frac{1}{8}$	2800	0.175
217-C	10	8 $\frac{1}{2}$	2 $\frac{1}{8}$	7500	0.150
579-B	2.5	7 $\frac{1}{8}$	2 $\frac{1}{8}$	20000	0.025
836	2.5	6 $\frac{7}{8}$	2 $\frac{1}{8}$	5000	0.25
878	2.5	7 $\frac{5}{8}$	1 $\frac{3}{8}$	20000	0.005
1616	2.5	6 $\frac{1}{8}$	2 $\frac{1}{8}$	6000	0.13
5825	1.6	5 $\frac{3}{8}$	2 $\frac{1}{8}$	60000	0.002
8013-A	2.5	6 $\frac{1}{8}$	2 $\frac{1}{8}$	40000	0.020
8020	5	8	2 $\frac{5}{8}$	40000	0.100

### MERCURY-VAPOR TYPES

575-A	5	11 $\frac{1}{8}$	3 $\frac{1}{8}$	15000	1.5
673	5	11 $\frac{3}{8}$	3 $\frac{1}{8}$	15000	1.5
816	2.5	4 $\frac{1}{8}$	1 $\frac{1}{8}$	7500	0.125
857-B	5	19 $\frac{7}{8}$	7 $\frac{1}{8}$	22000	10
866-A	2.5	6 $\frac{1}{8}$	2 $\frac{1}{8}$	10000	0.25
869-B	5	14 $\frac{1}{8}$	5 $\frac{1}{8}$	20000	2.5
872-A	5	8 $\frac{1}{2}$	2 $\frac{1}{8}$	10000	1.25
5558	5	7	3	5000	2.5
5561	5	11 $\frac{1}{4}$	3 $\frac{1}{8}$	3000	6.4
8008	5	8 $\frac{3}{4}$	2 $\frac{1}{8}$	10000	1.25

\*Voltage-reference type.

## RCA QUICK-SELECTION GUIDE

### RECTIFIERS (cont'd)

TYPE	CATHODE VOLTS	MAXIMUM DIMENSIONS INCHES		MAX. PLATE OR ANODE RATINGS	
		Length	Diam.	Peak Inv. Volts	Av. Amp.
GAS TYPES					
3B25	2.5	6 $\frac{5}{8}$	2 $\frac{1}{8}$	4500	0.5
3B28	2.5	6 $\frac{3}{8}$	2 $\frac{1}{8}$	10000	0.25

### THYRATRONS

<b>TRIODES</b>					
3C23	2.5	6 $\frac{1}{8}$	2 $\frac{1}{8}$	1250	1.5
627	2.5	7	2 $\frac{1}{8}$	2500	0.64
629	2.5	4 $\frac{1}{4}$	1 $\frac{1}{8}$	350	0.04
676	5	11 $\frac{3}{4}$	3 $\frac{1}{2}$	2500	6.4
677	5	11 $\frac{3}{4}$	3 $\frac{1}{2}$	10000	4.0
884	6.3	4 $\frac{1}{8}$	1 $\frac{1}{8}$	350	0.075
885	2.5	4 $\frac{1}{8}$	1 $\frac{1}{8}$	350	0.075
5557	2.5	6 $\frac{5}{8}$	2 $\frac{1}{8}$	5000	0.5
5559	5	7 $\frac{1}{4}$	3	1000	2.5
5563-A	5	10 $\frac{1}{2}$	2 $\frac{7}{8}$	15000	1.6
5728/FG-67	5	7	3	1000	2.5
6130/3C45*	6.3	5 $\frac{3}{8}$	1 $\frac{1}{8}$	3000	0.045

### TETRODES

2D21	6.3	2 $\frac{1}{8}$	3 $\frac{1}{4}$	1300	0.1
3D22-A	6.3	4 $\frac{5}{8}$	2 $\frac{3}{8}$	1500	0.8
105	5	11 $\frac{1}{4}$	2 $\frac{1}{2}$ *	2500	6.4
172	5	10 $\frac{3}{4}$	2 $\frac{5}{8}$ *	2000	6.4
502-A	6.3	2 $\frac{5}{8}$	1 $\frac{1}{8}$	1300	0.1
672-A	5	8 $\frac{1}{4}$	2 $\frac{5}{8}$	2500	3.2
2050	6.3	4 $\frac{1}{8}$	1 $\frac{1}{8}$	1300	0.1
5560	5	7 $\frac{1}{2}$	2 $\frac{1}{4}$ *	1000	2.5
5696	6.3	1 $\frac{3}{4}$	3 $\frac{1}{4}$	500	0.025
6012	6.3	4 $\frac{1}{4}$	1 $\frac{1}{2}$	1300	0.5

### IGNITRONS

TYPE	Size	MAX. DIMENSIONS INCHES		MAX. ANODE RATINGS††		MAX. ANODE RATING*†	
		Approx. Length	Radius	KVA Demand	Corresponding Av. Anode Amp.	Peak Inv. Volts	Amp. Av.
5550	(A)	10	1 $\frac{3}{8}$	300	12.1	.....	.....
5551	(B)	13 $\frac{1}{2}$	2 $\frac{7}{8}$	600	30.2	.....	.....
5552	(C)	14 $\frac{1}{2}$	3 $\frac{5}{8}$	1200	75.6	.....	.....
5553-A	(D)	20	4 $\frac{1}{2}$	2400	192.	.....	.....
5554		17 $\frac{1}{2}$	3 $\frac{1}{2}$	.....	.....	2100	75
5555		18 $\frac{1}{2}$	4 $\frac{1}{2}$	.....	.....	2100	150
5822		14 $\frac{1}{2}$	3 $\frac{5}{8}$	.....	.....	1500▲	56▲

\*Maximum Radius. ††For welder-control service.

\*†For power rectification. \*For operation up to 50000 feet.

▲For frequency-changer resistance-welding service.



## RCA QUICK-SELECTION GUIDE

### PHOTOTUBES

TYPE	Length	MAX. DIMENSIONS INCHES Diam.	MAX. ANODE-SUPPLY VOLTS	LUMINOUS SENSITIVITY MICROAMP. PER LUMEN	SPEC-TRAL RE-SPONSE
<b>GAS TYPES</b>					
1P29	4 1/8	1 1/8	100	40	S-3
1P37	4 1/8	1 1/8	100	135	S-4
1P40	Same as 930 except for non-hygroscopic base.				
1P41	2 1/4	1 1/8	90	90	S-1
868	4 1/8	1 1/8	100	90	S-1
918	4 1/8	4 1/8	90	150	S-1
920	4	1 3/8	90	100	S-1
921	1 3/8	1 3/8	90	135	S-1
923	3 9/16	1 1/8	90	135	S-1
924	2 1/8	1 1/8	90	90	S-1
927	2 3/8	1 1/8	90	125	S-1
928	3 1/8	1 3/8	90	65	S-1
930	3 1/8	1 3/8	90	135	S-1
5581	3 1/8	1 3/8	100	135	S-4
5582	1 3/8	1 3/8	100	120	S-4
5583	2 1/2	1 1/8	100	135	S-4
5584	4	1 1/8	100	120	S-4
6405/1640	4 7/8	1 1/8	90	135	S-1

### VACUUM TYPES

1P39	Same as 929 except for non-hygroscopic base.				
1P42	1 1/2	1/4	180	37	S-9
917	4 7/8	1 1/8	500	20	S-1
919	4 7/8	1 1/8	500	20	S-1
922	1 1/2	1 3/8	500	20	S-1
925	2 3/8	1 3/8	250	20	S-1
926	1 3/8	1 3/8	500	6.5	S-3
929	3 1/8	1 3/8	250	45	S-4
934	2 1/2	1 1/8	250	30	S-4
935	4 1/4	1 3/8	250	35	S-5
5652*	2 7/8	1 3/8	250	45	S-4
5653	3 1/2	1 3/8	250	45	S-4
6570	4 7/8	1 1/8	500	30	S-1

### MULTIPLIER PHOTOTUBES

TYPE	Length	MAX. DIMENSIONS INCHES Diam.	MAX. ANODE-SUPPLY VOLTS	LUMINOUS SENSITIVITY AMP/LUMEN	SPEC-TRAL RE-SPONSE
1P21	3 1/8	1 5/8	1250	80*	S-4
1P22	3 1/8	1 5/8	1250	0.6*	S-8
1P28	3 1/8	1 5/8	1250	50*	S-5
931-A	3 1/8	1 5/8	1250	24*	S-4
2020	5 1/8	2 1/4	1500	6**	S-11
5819	5 1/8	2 1/4	1250	25*	S-11
6199	4 9/16	1 5/8	1250	27*	S-11
6217	5 1/8	2 1/4	1250	24*	S-10

†Twin type. \*Twin type; each unit has a composite anode-cathode. •With Supply Volts=1000. \*\*With Supply Volts=1250.

## RCA QUICK-SELECTION GUIDE

### MULTIPLIER PHOTOTUBES (cont'd)

TYPE	Length	MAX. DIMENSIONS INCHES Diam.	MAX. ANODE-SUPPLY VOLTS	LUMINOUS SENSITIVITY AMP/LUMEN	SPEC-TRAL RE-SPONSE
6323	3 1/8	1 5/8	1250	35*	S-4
6328	3 1/8	1 5/8	1250	35*	S-4
6342	5 1/8	2 1/4	1500	7.5**	S-11
6372	7 3/4	2 5/8	1200	20	S-11
6472	2 3/4	1 5/8	1250	35*	S-4
6655	5 1/8	2 1/4	1250	25*	S-11

### CATHODE-RAY TUBES†

TYPE	MAX. OVER-ALL LENGTH Inches	MIN. SCREEN DIAM. Inches	MAX. FINAL ELEC-TRODE VOLTS	DEFLECTION FACTOR VOLTS DC/INT
				DJ <sub>1</sub> -DJ <sub>2</sub> †† DJ <sub>3</sub> -DJ <sub>4</sub> *

### OSCILLOGRAPH TYPES:

#### Medium Persistence, Electrostatic Focus:

2API-A	7 5/8	1 3/4	1000	184-276	157-235
2BPI	7 1/8	1 3/4	2500	115-155	74-100
3API-A	11 7/8	2 1/2	1500	61-91	59-89
3BPI-A	10 1/4	2 3/4	2000	80-120	59-89
3JPI	10 1/4	2 3/4	4000	85-115	63-85
3KPI	11 3/4	2 3/4	2500	50-68	38-52
3MPI	8 1/4	2 3/4	2500	115-145	110-140
3RPI	9 3/8	2 3/4	2500	73-99	52-70
3RPI-A	Same as type 3RPI, except has flat face.				
5ABPI	17 1/8	4 5/8	6000	27-36	18-24
5ABP4	Same as type 5ABPI, except for phosphor.				
5BPI-A	17 1/8	4 1/2	2000	35-49	32-45
5CPI-A	17 1/8	4 1/2	4000	39-53	33-45
5UPI	15 1/8	4 1/2	2500	28-39	23-31
7CPI	13 1/2	6 1/2	8000	**	**
7VPI	14 7/8	6	4000	31-41	25-34
902-A	7 5/8	1 3/4	600	183-277	160-235
914-A	20 7/8	8 1/4	7000	38-54	30-44

†All have 6.3-v heaters except: the 3API-A and 914-A which have 2.5-v heaters; and the 7NP4 and 7WP4 which have 6.6-v heaters. ††Per KV of final electrode volts. ††Deflecting electrodes nearer the face. \*Deflecting electrodes nearer the base. □Post-deflection accelerator type. \*\*Magnetic deflection. ▶For head-light dimming device. °Excluding flexible leads. •With Supply Volts = 1000. \*\*With Supply Volts = 1250.



## RCA QUICK-SELECTION GUIDE

### CATHODE-RAY TUBES (cont'd)

TYPE	MAX. OVER- ALL LENGTH Inches	MIN. SCREEN DIAM. Inches	MAX. FINAL ELEC- TRODE VOLTS	DEFLECTION FACTOR VOLTS DC/IN†	DJ <sub>1</sub> -DJ <sub>2</sub> ††	DJ <sub>3</sub> -DJ <sub>4</sub> *
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#### Short Persistence:

2BP11	Same as type 2BP1, except for phosphor.				
3KP11	Same as type 3KP1, except for phosphor.				
5ABP11	Same as type 5ABP1, except for phosphor.				
5CP11-A	Same as type 5CP1-A, except for phosphor.				
5UP11	Same as type 5UP1, except for phosphor.				
908-A	Same as type 3AP1-A, except for phosphor.				

#### Medium-Long Persistence:

5CP12	Same as type 5CP1-A, except for phosphor.				
5FP14	Same as type 5FP7-A, except for phosphor.				
7MP14	Same as type 7MP7, except for phosphor.				

#### Long Persistence:

3FP7-A ♦	10 1/4	2 3/4	4000	106-144	77-104
3JP7	Same as type 3JP1, except for phosphor.				
3KP7	Same as type 3KP1, except for phosphor.				
5ABP7	Same as type 5ABP1, except for phosphor.				
5CP7-A	Same as type 5CP1-A, except for phosphor.				
5FP7-A	11 1/2	4 1/4	8000	Mag. focus & deflec.	
5UP7	Same as type 5UP1, except for phosphor.				
7BP7-A	13 5/8	6	8000	Mag. focus & deflec.	
7MP7	13 1/8	6	8000	Mag. focus & deflec.	
10KP7	18	9	10000	Mag. focus & deflec.	
12DP7-A	20 1/8	10	10000	Mag. focus & deflec.	
12DP7-B	Same as 12DP7-A, but has filterglass faceplate.				
16ADP7	22	14 3/8	14000	Mag. focus & deflec.	

TYPE	MAX. OVER- ALL LENGTH Inches	MIN. SCREEN DIAM. Inches	MAX. FINAL ELEC- TRODE VOLTS	MAX. FOCUS- ING ELEC- TRODE VOLTS	DEFLEC- TION ANGLE Approx. Degrees
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#### FLYING-SPOT TYPES:

5AUP24#	12 7/8	4 1/4	27000	6000	50
5WP15	11 1 1/2	4 1/4	27000	6000	50
5ZP16	14 3/4	4 1/4	27000	7000	40

#### TRANSCRIBER KINESCOPE:

5WP11	11 1 1/2	4 1/4	27000	6000	50
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#### VIEW-FINDER KINESCOPIES:

5AYP4#	11 1 1/2	4 1/4	10000	1500	53
5FP4-A	11 1/2	4 1/4	8000	5	53

†All have 6.3v heaters except: the 3AP1-A and 914-A which have 2.5-v heaters; and the 7NP4 and 7WP4 which have 6.6-v heaters.

♦Electrostatic focus. #Aluminized. †, ††, \* See preceding page.

## RCA QUICK-SELECTION GUIDE

### CATHODE-RAY TUBES‡ (cont'd)

TYPE	MAX. OVER- ALL LENGTH Inches	MIN. SCREEN DIAM. Inches	MAX. FINAL ELEC- TRODE VOLTS	MAX. FOCUS- ING ELEC- TRODE VOLTS	DEFLEC- TION ANGLE Approx. Degrees
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**PROJECTION KINESCOPIES (For Theater Television):**

7NP4#	20 1/8	5x3 3/4	80000	20000	35
7WP4▲#	20 1/8	5x3 3/4	80000	20000	35

**MONITOR KINESCOPIES:**

7CP4	13 1 1/2	6 1/2	8000	2400	57
7QP4	13 1/4	6	10000	5	52
7TP4#	13 1/2	6	12000	2000	50
10SP4#	17	9 1/8	14000	2700	50

‡All have 6.3-v. heaters except: the 3AP1-A and 914-A which have 2.5-v. heaters; and the 7NP4 and 7WP4 which have 6.6-v. heaters.

■Projection-throw distance = 60 ft. ▲Projection-throw distance = 80 ft. §Magnetic focus. #Aluminized.

### CAMERA TUBES

#### ICONOSCOPES:

1850-A—For pick-up from motion-picture film or slides. Utilizes electrostatic focus and magnetic deflection. Has high ratio of signal to noise but relatively low sensitivity. Response covers entire visible spectrum.

5527 For industrial and laboratory TV applications. Features small size and moderate sensitivity. Utilizes electrostatic focus and deflection.

#### IMAGE ORTHICONS:

5820 For both outdoor and studio pickup. Has exceptional sensitivity combined with spectral response approaching that of the eye. Very stable in performance at all incident light levels on the object ranging from bright sunlight to a deep shadow. Utilizes magnetic focus and deflection.

6474/ For use in color cameras utilizing the method of simultaneous pickup of the studio or outdoor scene to be televised. Has exceptional sensitivity combined with spectral response approaching that of the eye. Utilizes magnetic focus and deflection.

#### VIDICONS:

6198 For use in industrial TV applications. Features small size and simplicity. Employs as its light-sensitive element a photoconductive layer having spectral response approaching that of the eye. Has very good sensitivity. Utilizes magnetic focus and deflection.

6326 Similar to 6198 but intended primarily for use in TV cameras for motion-picture film, transparencies, and opaques. Gives excellent results with any TV film projector.



## RCA QUICK-SELECTION GUIDE

### CAMERA TUBES (cont'd)

#### MONOSCOPES:

- 2F21 A 5" type with Indian-head test pattern for supplying signal to test video performance of TV receivers and transmitters. Utilizes electrostatic focus and magnetic deflection.
- 1699 Custom-built type like the 2F21 except that its pattern is individually styled to customer requirements.

### COMPUTER STORAGE TUBE

- 6571 Single-beam type. For use in binary-digital computer systems.

### VACUUM-GAUGE TUBES

- 1945 Hydrogen-Sensitive, Ionization Type. For locating minute leaks in vacuum enclosures.
- 1946 Thermocouple Type. For measuring gas pressures in the range from 1 mm to 0.0001 mm of mercury (1000 to 0.1 micron).
- 1947 Pirani Type. For measuring gas pressures in the range from 0.5 mm to 0.01 mm of mercury (500 to 10 microns).
- 1949 Ionization Type, hard-glass construction. For measuring gas pressures below 0.0001 mm of mercury (0.1 micron).
- 1950 Ionization Type. Similar to type 1949, but soft-glass construction.

### "SPECIAL RED" TUBES

Designed and manufactured for critical industrial applications where 10000-hour life, rigid construction, extreme uniformity and exceptional stability are paramount.

- 5690 Full-Weave Vacuum Rectifier. Features two separate diode units of the indirectly-heated-cathode type. Max. peak inverse plate volts, 1120; max. peak plate current per plate, 375 ma.; max. dc output current per plate, 75 ma.
- 5691 High-Mu Twin Triode similar to type 6SL7-GT.
- 5962 Medium-Mu Twin Triode similar to type 6SN7-GT.
- 5693 Sharp-Cutoff Pentode similar to type 6SJ7.

### "PREMIUM" TUBES

For special applications where dependable performance under shock and vibration is a prime consideration.

#### MINIATURE TYPES

- 5654 Sharp-Cutoff Pentode. "Premium" version of type 6AK5 for rf and if broad-band applications.
- 5726 Twin Diode. "Premium" version of type 6AL5-W for detector service in circuits utilizing wide-band amplifiers.
- 5751 High-Mu Twin Triode. "Premium" type similar to 12AX7 for applications such as phase inverters, and in numerous industrial control devices.
- 5814-A—Medium-Mu Twin Triode. "Premium" type similar to

## RCA QUICK-SELECTION GUIDE

### "PREMIUM" TUBES (cont'd)

#### MINIATURE TYPES (cont'd)

- 12AU7 for applications such as mixers, oscillators, phase inverters, and in numerous industrial control devices.
- 6073 Voltage Regulator, Glow-Discharge Type having very stable characteristics. "Premium" version of type OA2.
- 6074 Voltage Regulator, Glow-Discharge Type having very stable characteristics. "Premium" version of type OB2.
- 6101 Medium-Mu Twin Triode. Especially designed as a class A amplifier in mobile and aircraft equipment and in industrial application where uniformity of characteristics and dependability are important.

#### SUBMINIATURE TYPES

- 5718 Medium-Mu Triode. "Premium" type similar to miniature type 6C4 for use as a power amplifier and oscillator. Will give a useful power output of nearly one watt at a frequency of 500 megacycles per second.
- 5719 High-Mu Triode. "Premium" type for use as an audio amplifier in mobile and aircraft receivers. In audio service as a resistance-coupled amplifier, it is capable of providing high voltage gain.
- 5840 Sharp-Cutoff Pentode. "Premium" type similar to miniature type 6AK5 for use as an rf or if amplifier in high-frequency broad-band circuits in mobile and aircraft receivers. As an rf amplifier, the 5840 can be used at frequencies up to about 400 Mc.

### TYPES FOR SPECIAL APPLICATIONS

#### ACORNS

- 6F4 Oscillator Triode. Heater-cathode type. For frequencies up to 1200 Mc.
- 6L4 U-H-F Oscillator Triode. Heater-cathode type. For frequencies up to 1200 Mc.
- 954 Detector Amplifier Pentode. Heater-cathode type. For frequencies up to 430 Mc.
- 955 Detector Amplifier Oscillator Triode. Heater-cathode type. For frequencies up to 600 Mc.
- 956 Super-Control R-F Amplifier Pentode. Remote cut-off, heater-cathode type. For frequencies up to 430 Mc.
- 957 Detector Amplifier Oscillator Triode. Filament volts, 1.25. Amplification factor, 13.5.
- 958-A—Amplifier Triode. Filament volts, 1.25. For oscillator and r-f amplifier service.
- 959 Detector Amplifier Pentode. Filament volts, 1.25 for r-f amplifier and detector service.
- 9004 U-H-F Diode. Heater-cathode type. For u-h-f service as a rectifier, detector or measuring device. Resonant frequency, about 850 Mc.



## RCA QUICK-SELECTION GUIDE

### TYPES FOR SPECIAL APPLICATIONS (cont'd)

#### ACORNS (cont'd)

- 9005 U-H-F Diode. Heater-cathode type. For u-h-f service as a rectifier, detector or measuring device. Resonant frequency, about 1500 Mc.

#### MINIATURES

- 3A4 Power Amplifier Pentode. Filament volts, 1.4/2.8. A-F power output of 700 milliwatts.
- 3A5 H-F Twin Triode. Class C power output of 2 watts at 40 Mc.
- 6A56 Sharp-cutoff Pentode. 7-pin miniature type. Grids No. 1 and No. 3 can each be used as independent control electrodes. For use in gated amplifier circuits, delay circuits, gain-controlled amplifiers, and mixer circuits.
- 6J4 U-H-F Amplifier Triode. Cathode-drive amplifier. For frequencies up to 500 Mc.
- 12AY7—Medium-Mu Twin Triode. 9-pin Miniature Type. For use in the first stages of high-gain audio-frequency amplifiers, where reduction of microphonics, leakage noise, and hum are primary considerations.
- 26A6 RF Amplifier Pentode. Remote-cutoff, heater-cathode type. Useful in aircraft receivers operating directly from 12-cell storage batteries.
- 26C6 Duplex-Diode Triode. Heater-cathode type. Useful in aircraft receivers operating directly from 12-cell storage batteries.
- 26D6 Pentagrid Converter. Heater-cathode type. Useful in aircraft receivers operating directly from 12-cell storage batteries.
- 1654 Half-Wave High-Vacuum Rectifier. Max. peak inverse plate volts, 4300. Max. average plate current, 1 ma.
- 5879 Sharp-Cutoff Pentode. 9-pin miniature type. Intended for use as an audio amplifier in applications requiring reduced microphonics, leakage noise, and hum. Especially useful in the input stages of medium-gain public address systems, home sound recorders, and general-purpose audio systems.
- 9001 Detector Amplifier Pentode. A sharp cut-off pentode for use as an r-f amplifier or detector in u-h-f service.
- 9002 U-H-F Triode. Useful as a u-h-f detector, amplifier and oscillator.
- 9003 Super-Control R-F Amplifier Pentode. Remote cut-off type useful as a mixer or as an r-f or i-f amplifier in u-h-f services.
- 9006 U-H-F Diode. Heater-cathode type. Resonant frequency, about 700 Mc. For u-h-f service as a rectifier, detector, or measuring device.

## RCA QUICK-SELECTION GUIDE

### TYPES FOR SPECIAL APPLICATIONS (cont'd)

#### METAL, GT, AND OTHER GLASS TYPES

- 2C40 Lighthouse Triode. A high frequency amplifier and oscillator for use up to 3000 Mc. Plate dissipation, 6.5 watts max.,  $\mu = 36$ ,  $gm = 4800$  micromhos.
- 2C43 Lighthouse Triode. Has the same design features as the 2C40 except for a plate dissipation of 12 watts max.,  $\mu = 48$ , and  $gm = 8000$  micromhos.
- 6AG7-Y—Power Amplifier Pentode. Similar to type 6AG7 except for micanol base.
- 6AS7-G—Low-Mu Twin Triode. Heater-cathode type. Has high perveance, a  $\mu$  of 2, and an ac plate resistance of 280 ohms. For use as a regulator tube in dc power supplies, and in projection television booster scanning applications.
- 6SJ7-Y—Triple-Grid Detector Amplifier. Same as type 6SJ7 except for micanol base.
- 12A6 Beam Power Amplifier. Metal type. Designed particularly for aircraft applications. Heater volts, 12.6. Max. plate volts, 250.
- 12L8GT—Twin-Pentode Power Amplifier. Heater volts, 12.6. Max. plate volts, 180. Plate dissipation per plate, 2.5 watts. Similar to type 1644.
- 12SW7—Duplex-Diode Triode. Heater-cathode type. Useful in aircraft receivers.
- 12SX7-GT—Twin-Triode Amplifier. Heater-cathode type. Useful in aircraft receivers.
- 12SY7—Pentagrid Converter. Single-ended metal type. Useful in aircraft receivers.
- 26A7-GT—Twin A-F Beam Power Amplifier. Heater volts, 26.5. Max. plate volts, 50. For 12-cell battery service.
- 1609 Amplifier Pentode. For low-microphonic applications. Filament volts, 1.1. Max. plate volts, 135.
- 1612 Pentagrid Amplifier. For low-microphonic applications. Heater volts, 6.3. Max. plate volts, 250. Similar to type 6L7.
- 1620 Triple-Grid Detector Amplifier. For low-microphonic applications. Heater volts, 6.3. Max. plate volts, 250. Similar to type 6J7.
- 1621 Power Amplifier Pentode. Metal type. For applications requiring continuity of service. Heater volts, 6.3. In push-pull service: Max. plate volts, 300; a-f power output, 5 watts.
- 1622 Beam Power Amplifier. Metal type. For applications requiring continuity of service. Heater volts, 6.3. In push-pull service: Max. plate volts, 300; power output, 10 watts.
- 1629 Electron-Ray Tube. Indicator type. Similar to type 6E5 except for a 12.6-volt heater and an octal base.



## RCA QUICK-SELECTION GUIDE

### TYPES FOR SPECIAL APPLICATIONS (cont'd)

#### METAL, GT, AND OTHER GLASS TYPES (cont'd)

- 1631 Beam Power Amplifier. Metal type. Similar to type 6L6 except for a 12.6-volt heater. Max. plate dissipation, 16 watts.
- 1632 Beam Power Amplifier. Metal type. Similar to type 25L6 except for 12.6-volt heater, and plate voltage and dissipation ratings.
- 1634 Twin-Triode Amplifier. Single-ended metal type. Same as 12SC7 but especially suited for applications requiring matched triode units.
- 1635 Class B Twin Amplifier. Heater-cathode type. For audio amplifier applications.
- 5890 Low-current beam pentode of the remote-cutoff type intended particularly for the regulation of high-voltage dc power supplies.
- 6026 Oscillator Triode. Subminiature type intended for transmitting service in radiosonde applications at 400 Mc.
- 6080 Low-Mu Twin Triode. Similar to type 6AS7-G in characteristics, but is smaller in size. Intended for applications critical as to shock and vibration, and requiring reduced susceptibility to electrolysis.
- 6082 Same as 6080 but has 26.5-volt heater. Intended for use in aircraft receivers.

#### UHF "PENCIL" TUBES

- 5675 Medium-Mu Triode. For use in cathode-drive circuits at frequencies up to 3000 Mc/s. As a local oscillator, it is capable of giving a power output of 475 milliwatts at 1700 Mc/s.
- 5794 Fixed-Tuned Oscillator Triode. Intended for transmitting service in radiosonde application at 1680 Mc.
- 5876 High-Mu Triode. General purpose type. For use in cathode-drive circuits as an r-f amplifier, i-f amplifier, or mixer tube up to 1000 Mc/s; as a frequency multiplier up to 1500 Mc/s; and as an oscillator up to 1700 Mc/s. Delivers useful output of 5 watts at 500 Mc/s as an unmodulated Class C r-f amplifier, and 750 milliwatts as an oscillator at 1700 Mc/s.
- 5893 Medium-Mu Triode. Designed for use in cathode-drive circuits as a plate-pulsed oscillator at 3300 Mc/s and as a cw oscillator, rf power amplifier, and frequency doubler up to 1000 Mc/s.
- 6173 UHF Diode. For use in pulse detection and pulse-power-measuring service. May be operated at frequencies as high as 3300 Mc.

## RCA QUICK-SELECTION GUIDE

### UHF "PENCIL" TUBES (cont'd)

- 6263 Medium-Mu Triode. For use in cathode-drive, rf power amplifiers and oscillators in mobile transmitters operating up to 60000 feet without pressurized chambers. Under ICAS conditions, gives a useful power output of about 10 watts at 500 Mc. in unmodulated class C service with a plate input of only 14 watts.
- 6264 Like the 6263 but has a mu of 40. For frequency-amplifier service.

### TYPES FOR ELECTRONIC-COMPUTER AND OTHER

#### "ON-OFF" CONTROL APPLICATIONS

- 5915 Pentagrid Amplifier. 7-pin miniature type designed for use as a gated amplifier in electronic computers. Grids No. 1 and No. 3 can each be used as independent control electrodes.
- 5963 Medium-Mu Twin Triode. 9-pin miniature type intended for frequency-divider circuits in computers. Separate terminal for each cathode, and a mid-tapped heater for 6.3-volt or 12.6-volt operation.
- 5964 Medium-Mu Twin Triode. 7-pin miniature type intended for frequency-divider circuits in computers.
- 5965 Medium-Mu Triode. 9-pin miniature type. Balance of cutoff bias between the two units is closely controlled.
- 6197 Sharp-cutoff Power Pentode. 9-pin miniature type with a transconductance of 11000 micromhos. For frequency-divider and pulse amplifier service.
- 6211 Same as 5963 except that balance of cutoff bias between the two units is closely controlled.

#### KLYSTRONS

- 2K26 Single-resonator, reflex type oscillator for operation in the frequency range from 6250 to 7050 megacycles. It has a useful power output of about 100 milliwatts.

#### MECHANO-ELECTRONIC TRANSDUCER

- 5734 Triode type for applications involving the measurement of mechanical vibration. Has a minimum free cantilever resonance of the internal section of the plate shaft of 12000 cycles per second.

#### MAGNETRONS

- 2J41 Low-power, frequency-stabilized type with an integral magnet. Intended primarily for use as a pulsed oscillator at 9310 Mc in beacon service. Minimum peak stabilized power output of 300 watts at 9310 Mc and a duty cycle of 0.003.



# RCA QUICK-SELECTION GUIDE

## MAGNETRONS (cont'd)

- 2J50 Internal resonant-circuit type intended for pulsed-oscillator service, such as radar, at a fixed frequency of 8825 Mc. Will give a peak power output of 45 kilowatts when operated at 12000 peak anode volts.
- 4J50 Internal resonant-circuit type with an integral magnet. Intended for pulsed-oscillator service, such as radar, at a fixed frequency of  $9375 \pm 30$  Mc. Will give a peak power output of 240 kilowatts when operated at 23000 peak anode volts.
- 4J52 Internal resonant-circuit type with magnet attached. Intended for pulsed-oscillator service at a fixed frequency of 9375 Mc. Will give a peak power output of 80 kilowatts when operated at 15000 peak anode volts.
- 6521 Internal-resonant circuit type with an integral magnet. Designed and conservatively rated for long, reliable performance as a pulsed oscillator at a fixed frequency of 5400 Mc in weather radar equipment.

## SEMICONDUCTOR DEVICES

### TRANSISTORS

#### Junction Types

- 2N77 } Germanium p-n-p alloy types. For low-power audio applications where extreme stability and excellent uniformity of characteristics are paramount. The 2N77 and 2N105 are especially useful in hearing-aid applications.
- 2N104 }
- 2N105 }

- 2N109—Germanium p-n-p alloy type. For large-signal audio applications such as class B push-pull power output stages of battery-operated portable radio receivers and audio amplifiers. Also useful as a high-gain class A driver. Provides high power sensitivity.

### CRYSTAL DIODES

#### Germanium Point-Contact Types

- 1N34-A—General-purpose type for low-power rectification in applications such as isolating, clipping, and switching circuits, as well as in certain meter circuits.
- 1N38-A } Large-signal types having high peak inverse voltage ratings. They are especially useful in electronic computers, clamping, circuits, dc restorer circuits, and in high voltage probes.
- 1N55-A }
- 1N58-A }
- 1N54-A—High-back-resistance type for use in clipping circuits, high-impedance high-voltage probes, dc restorer circuits, and high-impedance detector circuits.
- 1N56-A—High-conduction type featuring exceptionally low dynamic impedance. It is especially useful for limiter service in frequency modulation receivers.

# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Direct Replacement Types

RCA types shown below are direct replacements under all circumstances for corresponding types to be replaced.

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
OA3/VR75	OA3	CE-23(A-D)	923
OC3/VR105	OC3	PJ-23	868
OD3/VR150	OD3	CE-25(A-D)	927
CE-1(A-D)	868, 918	RK-25	802
1P32	927	RK-25B	802
2AP1	2AP1-A	CE-28(A-D)	928
2B4	885	RK-28	803
ML-381	2C39-A	RK-28A	803
3X100A11	2C39-A	CE-29(A-D)	929, 1P39
ZP572	2C39-A	CE-30(A-D)	930, 1P40
2X2/879	2X2-A	CE-30V	925
3-50G2	834	RK-30	800
3AP1	3AP1-A	FG-32	5558
3BP1	3BP1-A	CE-34	934
3C45	6130/3C45	RK-39	807
3D22	3D22-A	CE-41	921
4D21	4-125A/4D21	CE-42	922
4-250A	4-250A/5D22	RK-44	837
4-400A	4-250A/5D22	RK-47	814
5BP1	5BP1-A	UH-50	834
5CP1	5CP1-A	R51A	927
5CP7	5CP7-A	CE-55	924
5D22	4-250A/5D22	FG-57	5559
5FP7	5FP7-A	RK-57	805
5HP1-A	5BP1-A*	RK-58	838
7BP7	7BP7-A	CE-59	5581
PJ-8	5556	R59A	868, 918
G9	868	R60A	920
BW-11	834	HY-61/807	807
CE-11V(A-D)	917	R61A	930
RK-11	1623	CE-64	5583
12DP7	12DP7-A	FG-67	5728/FG-67
FG-17	5557	VR75-30	OA3
CE-20	927	FG-95	5560
RK-20A	804	CE-98	5582
CE-21(A-D)	920	FG-104	5561

\*Except in high-altitude service.



# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Direct Replacement Types (cont'd)

RCA types shown below are direct replacements under all circumstances for corresponding types to be replaced.

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
VR105-30	OC3	WT-210-0070	5550
HF120	211	WT-210-0071	5551
VR150-30	OD3	WT-210-0072	5552
WT-210-0001	2D21	WT-210-0073	5553
WT-210-0003	884	WT-210-0074	105
WT-210-0004	2050	WT-210-0078	172
WT-210-0006	6H6	WT-210-0079	105
WT-210-0008	866-A	WT-210-0081	6SJ7
WT-210-0009	84/6Z4	WT-210-0082	6V6
WT-210-0011	OC3	WT-210-0083	7K7
WT-210-0012	80	WT-210-0084	6N7-GT
WT-210-0013	5Z3	WT-210-0085	50B5
WT-210-0015	5557	WT-210-0086	833-A
WT-210-0018	OD3	WT-210-0087	6K8-GT
WT-210-0019	83	WT-210-0088	6J5-GT
WT-210-0021	6X5	WT-210-0089	6G6-G
WT-210-0025	117Z6-GT	WT-210-0090	6C6
WT-210-0027	872-A	WT-210-0091	0A4-G
WT-210-0028	3Q5-GT	211-D	211
WT-210-0029	6C5	FG-235A	5552
WT-210-0031	902-A	FG-238B	5555
WT-210-0037	117L7/M7-GT	242A	211
WT-210-0038	172	242B	211
WT-210-0040	6X4	WT-245	884
WT-210-0042	5Y3-GT	WT-246	2050
WT-210-0044	575-A	FG-258A	5553
WT-210-0045	892	FG-259B	5554
WT-210-0048	5U4-G	WT-261	6H6
WT-210-0052	2API-A	WE-261A	835
WT-210-0053	3API-A	WT-262	866-A
WT-210-0056	5559	WT-263	6Z4
WT-210-0057	5560	WT-269	OC3
WT-210-0058	676	WT-270	80
WT-210-0060	OZ4	WT-270X	5Z3
WT-210-0061	117N7-GT	FG-271	5551
WT-210-0062	5557	WT-272	5557
WT-210-0069	5557	WE-274B	5R4-GY

# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Direct Replacement Types (cont'd)

RCA types shown below are direct replacements under all circumstances for corresponding types to be replaced.

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
WT-294	0D3	ML-728	5557
WE-295A	203-A	V/L-733	838
WT-301	83	801	801-A
UE-303A	203-A	811	811-A
WE-304B	834	812	812-A
F-307A	207	829	829-B
WT-308	6X5-GT	829-A	829-B
CE-309	5557	832	832-A
CE-311	3C23	833	833-A
UE-311	211	C-833	833-A
UE-311C	835	UH-50	834
UE-317C	217-C	857	857-B
WE-322A	803	862	862-A
WE-350A	807	866	866-A
375-A	575-A	866-A/866	866-A
WT-377	117Z6-GT	869-A	869-B
ML-381	2C39-A	872	872-A
WT-389	3Q5-GT	872-A/872	872-A
WT-390	6C5	F-872B	872-A
FJ-401	1P29	879	2X2-A
WE-403A	6AK5	889	889-A
GL-415	5550	893	893-A
GL-451	8020	902	902-A
ZP-572	2C39-A	UE-905	805
WT-606	2D21	905	905-A
WL-630	2050	906-PI	3API-A
WL-631	5559	908	908-A
KU-634	677	914	914-A
WL-651/656	5552	931	931-A
WL-652/657	5551	UE-938	838
WL-653B	5555	UE-949	849
WL-655/658	5553	UE-966A	866-A
672	672-A	UE-967	5557
678	5563-A	UE-972A	872-A
WL-679	5554	UE-975A	575-A
WL-681/686	5550	1640	6405/1640
NL-715	5557	1802-PI	5BPI-A



# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Direct Replacement Types (cont'd)

RCA types shown below are direct replacements under all circumstances for corresponding types to be replaced.

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
1811-P1	7CPI	WTT-115	117N7-GT
1849	1850-A	WTT-117	5557
1850	1850-A	WTT-118	105
1854	6474/1854	WTT-119	172
1904	5728/FG-67	WTT-122	6SJ7
2051	2050	WTT-123	6V6
2525A5	5BP1-A	WTT-124	7K7
5604	5604-A	WTT-125	6N7-GT
5814	5814-A	WTT-126	50B5
8001	4E27/8001	WTT-127	833-A
8016	1B3-GT	WTT-128	6K8-GT
WTT-100	6X4	WTT-129	6J5-GT
WTT-102	5Y3-GT	WTT-130	6G6-G
WTT-103	6H6	WTT-131	6C6
WTT-104	575-A	WTT-132	0A4-G
WTT-105	892	WTT-135	5U4-G
WTT-111	5559	WTT-136	2AP1-A
WTT-112	5560	WTT-137	3AP1-A
WTT-113	676	WTT-149	172
WTT-114	0Z4		

NOTE: For additional replacement data on RCA Tubes for broadcasting and industry, see the 20-page RCA Interchangeability Directory (Form 1D-1020) listing 1600 industrial tube type numbers used by 24 manufacturers.

# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Similar Types

RCA types shown below are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, Harrison, New Jersey.

Type to be Replaced	Similar RCA Type	Type to be Replaced	Similar RCA Type
CE-IV(A-D)	930, 1P40	HV-18	806
CE-2(A-D)	917, 919	FV-20	8000
2B22	559	T-20	1623
2C38	2C39-A	TV-20	810
2E25	2E24	TZ-20	809
2E30	5618	PJ-21	5556
3B27	836	CE-22(A-D)	1P41
3B28	866-A	PJ-22	917
3C21	838	X-22	1616
3C24	1623	KU-23	806
3-25A3	809	RK-23	802
3-50A4	811-A	RK-23A	802
3-75A3	8005	24-G	808
3-250A4	806	HY-25	809
3-450A4	833-A	25T	809
3-1000A2	8000	RK-27	806
3-1000A4	810	FG-27A	5559
3X2500A3	5762/7C24	HY-30Z	809
4C21	211	CE-31V	919
		FG-33	5728/FG-67
4C22	8005	35T	811-A
4X150G	4X150A	35TG	808
CE5(A-D)	927	CE-36(A-D)	927
5C24	8000	RK-36	806
5D24	4-250A/5D22	RK-37	808
6D22	4X500A	RK-38	806
WT-6	6L6	HY-40	812-A
7C20	5762/7C24	T-40	812-A
7C25	5762/7C24	TZ-40	811-A
7C27	5762/7C24	HY-40Z	811-A
HV-12	806	RK-41	807
RK-12	809	RK-46	804
CE-13	868	RK87	814
CE-13V	917	RK-48A	813
G-15F	927	SR-50	917



# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Similar Types (cont'd)

RCA types shown below are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, Harrison, New Jersey.

Type to be Replaced	Similar RCA Type	Type to be Replaced	Similar RCA Type
HY-51A	830-B	100R	8020
HY-51B	830-B	100TH	810
HY-51Z	833	100TL	8000
RK-51	830-B	111-H	812-A
SR-51	926	ZB-120	838
RK-52	811-A	FI23A	806
53AWB	927	HF-125	8005
SR-53	917	T-125	810
HK-54	808	F-127A	810
54-XH	3API-A	F-128A	851
T-55	8005	HF-130	835
HY-57	812-A	HF-140	211
R-58A	927	143D	2X2-A
58AWB	927	GL-146	805
59D	929	AB-150	845
CE-60	917	TW-150	810
HF-60	8005	150P	803
HY-60	807	150T	806
SK-60	868	152TH	806
T-60	8005	152TL	806
R61BV	929	GL-152	805
RK-63	806	HK-154	808
SK-63	918	T-155	806
RK-64	807	C-200	810
R64AV	925	HF-200	8000
HY-69	1624	T-200	806
V-70-D	8005	C-201	805
R71A	930, 1P40	C-202	805
R71AV	925	HD203-A	805
71D	929	HD-203C	805
FP-85	8020	HF-203H	8003
FP-85A	8020	WE-205D	10-Y
R85A	928	WE-205E	10-Y
CE-91R	1P37	WT-210-0007	6L6
HF-100	8005	WT-210-0067	3C23

# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Similar Types (cont'd)

RCA types shown below are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, Harrison, New Jersey.

Type to be Replaced	Similar RCA Type	Type to be Replaced	Similar RCA Type
211B	211	WE-274A	5R4-GY
211C	835	WE-281A	46
HD-211C	805	T-282A	8000
211E	835	WE-284B	845
212E	849	WE-284D	845
WE-214E	217-C	WE-287A	5557
WE-217-A	80	WE-298A	862-A
WE-220C	892	300	806
Z-225	866-A	WE-301A	83
WE-231D	864	T-303C	8000
WE-241B	833-A	UE-303U	8000
WE-242C	211	UE-304A	204-A
T-249B	866-A	WE-304B	6AK5
WE-249A	866-A	CE-306	676
WE-249B	866-A	WE-307A	807
250TH	810	UE-310	801-A
250TL	806	WE-310A	6C6
HF-250	8000	UE-311CH	8000
WE-251A	851	UE-311T	8003
WE-252A	842	UE-311CT	8003
HK-253	217-C	WE-312A	828
HK-254	810	315A	673
WE-254B	865	319A	872-A
WE-255B	869-B	321A	673
HF-258B	866-A	323B	3C23
WE-259A	24-A	WE-339A	807
260A	860	WE-341AA	891-R
HF-261A	835	F-342A	858
WE-264A	864	343A	858
WE-264B, C	864	WE-348A	1620
266B	857-B	C-350	807
WE-266C	857-B	WE-350B	807
WE-267B	872-A	353A	872-A
WE-268A	801-A	HK-354C	806
WE-271A	843	HK-354D	806



# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Similar Types (cont'd)

RCA types shown below are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, Harrison, New Jersey.

Type to be Replaced	Similar RCA Type	Type to be Replaced	Similar RCA Type
HK-354E	806	WL-739	927
HK-354F	806	WL-741	923
ML-356	5771	T-756	809
WE-356A	808	UE-812H	8005
WE-357A	833-A	T-814	806
F-357A	857-B	T-822	806
WE-359A	1C21	825	1623
WE-361A	835	C-849A	833-A
F-363A	892	C-849H	833-A
F-367A	673	F-857A	857-B
F-369B	869-B	861-A	861
F-376A	835	863	892
WE-393A	3C23	866-B	866-A
WE-394A	627	C-872	872-A
WE-395A	5823	UE-911CH	835
FJ-405	935	UE-942	842
WL-450	833-A	NL-1005	5551
WL-460	806	1603	1620, 5879
WL-463	806	1816-P4A	10FP4-A
UE-468	8000	1847	5527
WL-468	810	1851	6AC7
WL-471	8003	1899	2F21
WL-473	5762/7C24	2501-A3	3AP1-A
WL-481	8013-A	2501-C3	908-A
RH-507	1949	5514	811-A
DRJ-524	864	5516	2E24
GL-546	5696	5591	6AK5
578	8020	5604	889R-A
NL-615	5558	5606	892
WL-632A	5560	5654	6AK5
WL-632B	5560	5658	880
678	5563	5663	5696
NL-710	676	5666	889-A
NL-714	5557	5667	889R-A
WL-734	917	5668	892

# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Similar Types (cont'd)

RCA types shown below are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, Harrison, New Jersey.

Type to be Replaced	Similar RCA Type	Type to be Replaced	Similar RCA Type
5669	892-R	6156	4-250A/5D22
5685/C6J	676	6333	892
5686	5763	6336	6080
5695	816	6346	5551
5720/FG-33	5728/FG-67	6347	5552
5725	6AS6	6348	5553
5736	5726/7C24	6394	6082
5788	5555	6445	892-R
5891	5671	6446	892
5918	5770	6447	892-R
5934	579-B	6626	6073
5959	6130/3C45	6627	6074
6140/423A	5651	AX9911	6130/3C45
6155	4D21/4-125A		



# RCA RADIO BATTERIES

## Radio-Engineered for Extra Listening Hours

RCA Type	Volts		Replaces		NEDA Type No.	Max. Overall Dimensions		
	A	B	Eve-ready	Burgess		L	W. or Dia.	Ht.

(For socket and terminal information see pages 97 and 98)

### PORTABLE "A" TYPES

VS002	4½	—	746	G3	7	4	1⅜	4½
VS004	1½	—	742	4F	4	2⅝	2⅝	4½
VS005	1½	—	—	4FL	12	3½	1⅝	5⅝
VS009	6	—	744	F4PI	6	2⅝	2⅝	4¼
VS010	6	—	718	2F4	1	3⅝	2½	5½
VS011	6	—	747	2F4L	16	3⅝	1⅞	10¾
VS035	1½	—	935	I	14	—	1	1½
VS036	1½	—	950	2R	13	—	1⅞	2⅝
VS045	7½	—	717	C5	9	2⅞	2	3½
VS047	4½	—	736	F3	3	4	1⅝	4⅞
VS048	6	—	724	Z4	2	1⅞	1⅞	2⅝
VS049	1½	—	720	2D	18	2⅞	1⅞	2⅝
VS070	1½	—	960P	8R	23	—	1⅞	4½
VS072	4½	—	726	D3	19	3½	1⅞	2½
VS129	7½	—	713	B5	8	4⅞	½	3
VS141	1½	—	W353	2F	11	2⅞	1⅞	4¼
VS236	1½	—	964	21R	20	—	1⅝	4½

### PORTABLE "B" TYPES

VS012	—	45	484	B30	207	4⅞	2⅝	5⅞
VS013	—	45	482	M30	202	3⅞	1½	5½
VS014	—	45	W359	A30	206	3⅞	2¼	4⅞
VS015	—	22½, 45	738	Z30	205	3	2¼	4
VS016	—	67½	467	XX45	200	2¾	1⅝	3¾
VS055	—	45	455	XX30	201	2½	1	3½
VS082	—	67½	457	K45	203	2½	1⅝	2⅞
VS086	—	45	415	U30	213	1⅞	⅞	3⅞
VS090	—	90	490	N60	204	3½	1⅝	3¾
VS215	—	67½	—	P45M	211M	1½	1	5⅞
VS216	—	67½	—	P45M	211M	1½	1⅝	5⅞
VS217	—	75	437	XX50	212	1½	1⅝	6¼
VS218	—	67½	477	P45	211P	1½	1	5⅞
VS219	—	90	479	P60	214	1½	1⅝	7½

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# RCA RADIO BATTERIES

## PORTABLE "A-B" PACKS

RCA Type	Volts		Replaces		NEDA Type No.	Max. Overall Dimensions		
	A	B	Eve-ready	Burgess		L	W. or Dia.	Ht.
VS019	7½, 9	90	753	F6A60	401	9⅞	2¾	4⅞
VS038	7½	63	W367	G5A42	408	8⅝	2¾	4⅞
VS043	1½	90	—	5DA60	409	5½	2½	7⅞
VS046	6	75	—	G4B50	422	12⅝	2¾	4⅞
VS047	9	90	752	G6B60	400	13⅝	2¾	4⅞
VS050	6, 7½	75	755	T5Z50	403	8⅞	2⅞	3½
VS052	1½	61½	—	4GA41	423	9⅞	2½	3⅞
VS053	1½	63	W366	4GA42	407	9⅞	2	4¾
VS054	1½	90	W369	6TA60	410	10	2⅞	4½
VS057W	7½, 9	90	756	T6Z60	405	8½	2⅞	3¾
VS058	9	90	757	F6A60P	406	9½	2¾	4⅞
VS059	9	90	756P	T6Z60P	428	8½	2⅞	3¾
VS060	7½	75	—	T5Z50P	431	8⅞	2⅞	3½
VS064	1½	90	729	4TZ60	425	7¾	2⅞	3⅝

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RCA Type	Volts			Replaces		NEDA Type No.	Max. Overall Dimensions		
	A	B	C	Eve-ready	Burgess		L	W. or Dia.	Ht.

### FARM "A-B" AND "B" TYPES

VS022	1½	90	—	759	17GD60	413	15¾	4¼	6½
VS026	—	22½, 45	—	W365P	2308PI	717	8⅞	3⅞	7⅞
VS045	1½	90	—	—	18GD60	426	12⅞	5⅝	6½
VS119	7½, 9	90	—	—	—	415	8¼	4½	13⅞

### FLASHLIGHT AND LANTERN TYPES

VS034	1½	—	—	915	Z	15	—	⅞	2
VS035	1½	—	—	935	I	14	—	1	1½
VS036	1½	—	—	950	2	13	—	1⅞	2⅝
VS040C	6	—	—	510F	F4H	908	2½	2½	4⅞
VS040S	6	—	—	510S	F4BP	915	2½	2½	4⅞
VS073	1½	—	—	—	N	910	—	⅞	1⅞
VS074	1½	—	—	912	7	24	—	⅞	14⅞
VS138	3	—	—	W357	4F2H	901	3⅝	2½	5⅞

(For socket and terminal information see pages 97 and 98)

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# RCA RADIO BATTERIES

## INDUSTRIAL AND SPECIAL-PURPOSE BATTERIES

RCA Type	Volts			Replaces		NEDA Type No.	Max. Overall Dimensions		
	A	B	C	Eve-ready	Burgess		L	W. or Dia.	Ht.
VS006C	1 1/2	—	—	61GN	61GN	914	—	2 3/8	6 3/8
VS006S	1 1/2	—	—	61GN	61GN	905	—	2 3/8	6 1/8
VS028	—	—	4 1/2	781	5360	714	2 3/8	1 1/2	2 1/8
VS029	—	—	7 1/2 □	773	5540	713	3 3/8	1 1/2	2 1 1/8
VS030	—	—	3, 4 1/2	771	2370PI	718	3 1 1/8	1 3/8	2 1/8
VS031	—	—	22 1/2 ♦	768	5156PI	721	4	2 1/2	3
VS039	6	—	—	1461	S461	907	10 3/8	2 1/8	7 3/8
VS040S	6	—	—	510S	F4BP	915	2 1 1/8	2 1 1/8	4 1/8
VS083	—	15	—	411	U10	208	1 3/8	5/8	1 1/8
VS084	—	22 1/2	—	412	U15	215	1 3/8	5/8	2
VS085	—	30	—	413	U20	210	1 3/8	5/8	2 1/8
VS087	per cell: 1.4 volts per stack: 21 volts			—	—	759	—	.491	.220
VS088	per cell: 1.4 volts per stack: 21 volts			—	—	760	—	.887	.226
VS093	—	300	—	493	U200	722	2 3/8	2 1/8	3 1 1/8
VS100	3	—	—	W352	F2BP	701	2 3/8	1 3/8	4 1/8
VS101	1 1/2	—	—	W354	2FBP	700	2 3/8	1 3/8	4 1/8
VS102	—	22 1/2	—	763	4156	710	3 3/8	2 1/8	2 3/8
VS103	6	—	—	706	4F4H	902	8 1/8	2 1 1/8	6 1/8
VS106	1 1/2	—	—	735	4FH	900	2 1 1/8	2 1 1/8	4 1/8
VS112	—	22 1/2, 45	—	W376	5308	709	4 1/8	2 3/8	5 1/8
VS114	—	22 1/2, 45	—	W350	Z30NX	711	3	1 1/8	4 1 1/8
VS126	—	22 1/2, 45	—	W365F	2308SC	723	8 1/8	3 1/4	7 1/8
VS127	—	22 1/2, 45	—	W363F	10308SC	716	8	4	7 3/8
VS127W	—	22 1/2, 45	—	—	10308SC	724	8	4	7 3/8
VS130	—	—	4 1/2 ♦♦	761T	2370ST	712	3 1 1/8	1 3/8	3
VS131	—	—	22 1/2 §	778	5156SC	708	4 1/8	2 1/2	3 1/8
VS133	4 1/2	—	—	703	532	706	2 3/8	1 1/2	2 1/8
VS134	3	—	—	750	422	704	1 1/8	3/4	2 1/8
VS136	3	—	—	W356	2F2H	703	2 1 1/8	2 1 1/8	4 1/8
VS138	3	—	—	W357	4F2H	901	3 3/8	2 1 1/8	5 1/8
VS139	7 1/2	—	—	715	4F5H	903	7 1/4	4	6 1/8
VS140	9	—	—	716	4F6H	904	8 1/2	4 1/8	6 1/8
VS142	4 1/2	—	—	751	432	705	2	3/4	2 3/8
VS157	—	22 1/2, 45	—	W364F	21308SC	715	8 1/8	4 3/8	7 1 1/8

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♣ Wax coated.

□ Other voltage taps: 1 1/2, 3, 4 1/2, 6. ♦ Other voltage taps: 3, 4 1/2, 16 1/2.

♦♦ Other voltage taps: 1 1/2, 3. § Other voltage taps: 3, 4 1/2, 6, 9, 10 1/2, 16 1/2.

# TERMINAL GUIDE FOR RCA BATTERIES

Battery Type	Terminals	Battery Type	Terminals
VS002	Fig. 2	VS070	Fig. 1
VS004	Fig. 1	VS072	Fig. 2
VS005	Fig. 1	VS073	Flashlight
VS006C	2 Fahnestock Clips	VS074	Flashlight
VS006S	2 Screw Terminals	VS082	2 Snap Terminals
VS009	Fig. 3	VS083	Flashlight
VS010	Fig. 3	VS084	Flashlight
VS011	Fig. 3	VS085	Flashlight
VS012	Fig. 7	VS086	2 Snap Terminals
VS013	Fig. 6	VS087 }	{ Top and Bottom Surfaces
VS014	Fig. 7	VS088 }	
VS015	Fig. 8	VS090	2 Snap Terminals
VS016	2 Snap Terminals		2 Flush-Pin
VS019	Fig. 14	VS093	Jack-Terminals
VS022	Fig. 12	VS100	2 Screw
VS026	Fig. 5	VS101	2 Screw
VS028	2 Screw Terminals	VS102	2 Screw
VS029	5 Screw Terminals, 1 Pigtail	VS103	2 Screw
VS030	Fig. 9	VS106	2 Screw
VS031	Fig. 10	VS112	3 Screw
VS034	Flashlight	VS114	3 Screw
VS035	Flashlight	VS119	Fig. 13
VS036	Flashlight	VS126	3 Fahnestock Clips
VS038	Fig. 15	VS127	3 Fahnestock Clips
VS039	2 Screw Terminals	VS127W	3 Fahnestock Clips
VS040C	2 Coil-Spring Terminals	VS129	Fig. 4
VS040S	2 Screw Terminals	VS130	4 Screw
VS043	Fig. 12	VS131	8 Fahnestock Clips
VS045	Fig. 11		2 Flat-Spring Terminals
VS046	Fig. 17	VS133	2 Flat-Spring Terminals
VS047	Fig. 18	VS134	2 Flat-Spring Terminals
VS050	Fig. 16	VS136	2 Screw
VS052	Fig. 19	VS138	2 Fahnestock Clips
VS053	Fig. 19	VS139	2 Screw
VS054	Fig. 12	VS140	2 Screw
VS055	2 Snap Terminals	VS141	Fig. 1
VS057W	Fig. 14	VS142	2 Flat-Spring Terminals
VS058	Fig. 18		3 Fahnestock Clips
VS059	Fig. 18	VS157	2 Snap Terminals
VS060	Fig. 20	VS215	2 Snap Terminals
VS064	Fig. 12	VS216	2 Snap Terminals
VS065	Fig. 4	VS217	2 Snap Terminals
VS067	Fig. 2	VS218	2 Snap Terminals
		VS219	2 Snap Terminals
VS068	Flashlight	VS236	Flashlight
VS069	Fig. 1		



# TERMINAL PATTERNS FOR RCA BATTERIES

<p>FIG. 1 "A"</p> <p>-A +1.5</p> <p>RETMA 101</p>	<p>FIG. 2 "A"</p> <p>-A +4.5</p> <p>RETMA 103</p>	<p>FIG. 3 "A"</p> <p>-A +6</p> <p>RETMA 104</p>
<p>FIG. 4 "A"</p> <p>-A +7.5</p> <p>RETMA 105</p>	<p>FIG. 5 "B"</p> <p>-B</p> <p>RETMA 107</p>	<p>FIG. 6 "B"</p> <p>-B</p> <p>RETMA 110</p>
<p>FIG. 7 "B"</p> <p>-B</p> <p>RETMA 111</p>	<p>FIG. 8 "B"</p> <p>-B</p> <p>RETMA 111</p>	<p>FIG. 9 "C"</p> <p>-4.5</p> <p>RETMA 112</p>
<p>FIG. 10 "C"</p> <p>-22.5</p> <p>RETMA 113</p>	<p>FIG. 11 "A-B"</p> <p>+1.5A</p> <p>RETMA 115</p>	<p>FIG. 12 "A-B"</p> <p>+90B</p> <p>RETMA 115</p>
<p>FIG. 13 "A-B"</p> <p>+90B</p> <p>RETMA 115</p>	<p>FIG. 14 "A-B"</p> <p>+90B</p> <p>RETMA 116</p>	<p>FIG. 15 "A-B"</p> <p>+90B</p> <p>RETMA 116</p>
<p>FIG. 16 "A-B"</p> <p>+90B</p> <p>RETMA 116</p>	<p>FIG. 17 "A-B"</p> <p>+90B</p> <p>RETMA 116</p>	<p>FIG. 18 "A-B"</p> <p>+90B</p> <p>RETMA 116</p>
<p>FIG. 19 "A-B"</p> <p>+90B</p> <p>RETMA 116</p>	<p>FIG. 20 "A-B"</p> <p>+90B</p> <p>RETMA 116</p>	<p>FIG. 21 "A-B"</p> <p>+90B</p> <p>RETMA 116</p>

## RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios

Make and Model	RCA Battery			Make and Model	RCA Battery		
	A	AB	B		A	AB	B
<b>Admiral</b>				<b>Admiral (cont'd)</b>			
L76P5	1-VS005		2-VS014	7P32		1-VS019	
N28-G5	2-VS036		1-VS016	7P33		1-VS019	
4B21	1-VS065		1-VS216	7P34		1-VS019	
4B22	1-VS065		1-VS216	27-G4	2-VS036		1-VS016
4B24	1-VS065		1-VS216	28-G5	2-VS036		1-VS016
4B28	1-VS065		1-VS216	29-G5	2-VS036		1-VS016
4B29	1-VS065		1-VS216	51D4		1-VS054	
4D11	2-VS036		1-VS016	76-P5	1-VS005		2-VS014
4D12	2-VS036		1-VS016	76-XP5	1-VS005		2-VS014
4D13	2-VS036		1-VS016	77-P5	1-VS005		2-VS014
4R1	1-VS065		1-VS016	77-XP5	1-VS005		2-VS014
4R11	1-VS065		1-VS016	78-P6	1-VS004		2-VS013
4R12	1-VS065		1-VS016	78-XP6	1-VS004		2-VS013
4T1	1-VS065		1-VS016	79-P6	1-VS004		2-VS013
4T11	1-VS065		1-VS016	79-XP6	1-VS004		2-VS013
4Y12	1-VS065		1-VS016	231-4F	1-VS004		2-VS014
4Y16	1-VS065		1-VS016	231-4Z	1-VS004		2-VS014
4Y18	1-VS065		1-VS016	3114D-PH	1-VS004		2-VS013
4W1	1-VS065		1-VS016	319-4Z	1-VS005		2-VS014
4W18	1-VS065		1-VS016	331-4F	1-VS004		2-VS014
4W19	1-VS065		1-VS016	335-4Z	1-VS004		2-VS013
4X1	2-VS236		1-VS216	635-4Z	1-VS004		2-VS013
4Y12	1-VS065		1-VS016	1035-4Z	1-VS004		2-VS013
4Y18	1-VS065		1-VS016	1644-D	1-VS004		2-VS013
4Y19	1-VS065		1-VS016				
4X11	2-VS236		1-VS216	<b>Air-Castle (Spiegel)</b>			
4Z1	1-VS065		1-VS016	BP115	1-VS010		2-VS013
4Z12	1-VS065		1-VS016	DM700	4-VS036		1-VS016
4Z14	1-VS065		1-VS016	EV760	4-VS036		1-VS016
4Z18	1-VS065		1-VS016	G-521	2-VS002		2-VS013
4Z19	1-VS065		1-VS016	76-74T	1-VS002		1-VS016
5F11	1-VS065		1-VS016	102-B	1-VS002		1-VS090
5F12	1-VS065		1-VS016	213	1-VS002		1-VS016
5H1		1-VS019		738B5400	1-VS072		1-VS090
5K32		1-VS057W		5027	2-VS002		2-VS013
5K34		1-VS057W		5028	2-VS036		1-VS016
5K38		1-VS057W		5029	2-VS036		1-VS016
5K39		1-VS057W		132564		1-VS022	
6C11		1-VS019		147114	5-VS036		1-VS016
6E1		1-VS019					
6E1N		1-VS019		<b>Airchief (Firestone)</b>			
6F11		1-VS019		4C1	2-VS036		1-VS016
6F12		1-VS019		4C5	2-VS036		1-VS016
6P32		1-VS019		4C13	5-VS036		1-VS016
6Y1		1-VS019		4C16	1-VS067		1-VS090
6Y18		1-VS019		4C17	1-VS067		1-VS090
6Y19		1-VS019					



# RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios  
(Continued)

Make and Model	RCA Battery		
	A	AB	B
<b>Airchief (Firestone) (cont'd)</b>			
4C18	1-VS019		
4C19	1-VS067	1-VS090	
4C20	1-VS067	1-VS090	
4C21	2-VS067	2-VS013	
4C22	2-VS236	1-VS216	
4C23	1-VS057W		
4C24	1-VS057W		
<b>Air King</b>			
A410	2-VS036	1-VS016	
A425	1-VS036	1-VS016	
A426	1-VS036	1-VS055	
A427	1-VS036	1-VS055	
A520	3-VS036	1-VS016	
520A	1-VS129	1-VS016	
3905	1-VS004	1-VS015	
<b>Airline (Mont-Ward)</b>			
B4GCB-			
1062A	1-VS036	1-VS016	
GSE-1077A	2-VS036	1-VS216	
GSE-1078A	2-VS036	1-VS216	
14BD9-815	4-VS036	1-VS016	
15BD11-917	1-VS019		
25GHM-			
1073A	1-VS019		
35GHM-			
1073B	1-VS019		
35GHM-			
1073C	1-VS019		
35GHM-			
1074A	3-VS036	1-VS217	
62TL-1062	1-VS036	1-VS016	
64WG-			
1054A	1-VS019		
74KR-			
1210A	1-VS019		
74WG-			
1054A	1-VS019		
74WG-			
1056A	1-VS019		
84WG-			
1060A	4-VS036	1-VS016	
94WG-			
1059A	1-VS019		
1064A	1-VS036	1-VS016	

Make and Model	RCA Battery		
	A	AB	B
<b>Airline (M-W) (Cont'd)</b>			
1067	2-VS036	1-VS016	
1068	1-VS036	1-VS090	
1070	1-VS019		
1072	1-VS036	1-VS090	
<b>Andrea</b>			
8663	2-VS067	2-VS013	
P163	2-VS002	2-VS013	
<b>Arvin</b>			
140P	1-VS019		
240P	3-VS036	1-VS016	
241P	4-VS036	1-VS016	
244P	4-VS036	1-VS016	
250P	1-VS019		
350P	6-VS035	1-VS090	
350PB	6-VS035	1-VS090	
350PL	6-VS035	1-VS090	
351P	6-VS035	1-VS090	
351PB	6-VS035	1-VS090	
351PL	6-VS035	1-VS090	
352PL	6-VS035	1-VS090	
353PL	6-VS035	1-VS090	
446P	2-VS036	1-VS016	
447P	2-VS036	1-VS016	
448P	6-VS035	1-VS016	
449P	6-VS035	1-VS016	
650P	6-VS035	2-VS055	
652P Series	6-VS035	2-VS055	
654P Series	6-VS035	2-VS055	
746P	1-VS236	1-VS216	
747P	1-VS236	1-VS216	
852P	5-VS035	2-VS055	
854P	5-VS035	2-VS055	
<b>Automatic</b>			
Tom Thumb (Buddy)	2-VS036	1-VS016	
Tom Thumb (Camera)	2-VS036	1-VS016	
(Bike) B44	2-VS036	1-VS016	
C-51	2-VS067	2-VS013	
C-54	2-VS067	2-VS013	
C-60	1-VS011	2-VS013	
C65	1-VS011	2-VS013	

# RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios  
(Continued)

Make and Model	RCA Battery		
	A	AB	B
<b>Bendix</b>			
PMR-3A	1-VS036	1-VS016	
PAR-80	1-VS019		
PMR-3A	1-VS036	1-VS016	
55X4	4-VS035	1-VS016	
416A	1-VS022		
687A	1-VS019		
<b>Capehart</b>			
10	1-VS036	1-VS016	
15	1-VS057W		
P213	2-VS236	1-VS216	
1P55	2-VS236	1-VS216	
<b>Cavalier</b>			
4P3	1-VS057W		
<b>Clarion</b>			
13201	1-VS022		
13203	1-VS022		
<b>CBS-Columbia</b>			
525	1-VS129	1-VS016	
526	1-VS129	1-VS016	
5110	2-VS035	1-VS216	
5220	1-VS065	1-VS216	
<b>Concord</b>			
1-611	2-VS002	2-VS013	
<b>Continental</b>			
B-5400	1-VS072	1-VS090	
<b>Coronado</b>			
RA37-43-			
9855	2-VS236	1-VS216	
RA33-9856D	1-VS019		
RA42-9850A	2-VS036	1-VS016	
35RA4-43-			
9856A	1-VS019		
94RA31	1-VS002	1-VS106	
<b>Crosley</b>			
9-101	1-VS022		
9-302	1-VS019		
9-304	2-VS036	1-VS016	
9-307M	1-VS057W		
10-304M	1-VS067	1-VS090	

Make and Model	RCA Battery		
	A	AB	B
<b>Crosley (cont'd)</b>			
10-307M	1-VS057W		
10-308	1-VS057W		
10-309	1-VS057W		
11-301U	1-VS036	1-VS016	
11-302U	1-VS036	1-VS016	
11-303U	1-VS036	1-VS016	
11-304U	1-VS036	1-VS016	
11-305U	1-VS036	1-VS016	
F-100	2-VS236	1-VS217	
F110BE	2-VS236	1-VS217	
F110BK	2-VS236	1-VS217	
F110CE	2-VS236	1-VS217	
F110GN	2-VS236	1-VS217	
F110RD	2-VS236	1-VS217	
F115	1-VS058		
<b>Detrola</b>			
610-A	1-VS022		
3891	2-VS002	2-VS013	
3892	2-VS002	2-VS013	
3893	2-VS002	2-VS013	
<b>Dewald</b>			
A-507	2-VS067	2-VS013	
B-400	2-VS036	1-VS016	
B-402	1-VS002	1-VS016	
B-504	1-VS002	1-VS016	
B-515	1-VS002	1-VS016	
C-504	1-VS067	1-VS016	
C-515	1-VS067	1-VS016	
D-508	2-VS002	2-VS013	
D-517	1-VS067	1-VS016	
D-517A	1-VS067	1-VS090	
F-504	1-VS022		
G-408	2-VS236	1-VS216	
H-527	1-VS065	1-VS216	
H-528	1-VS065	1-VS216	
<b>Dynavox</b>			
3P801	2-VS036	1-VS016	
<b>Emerson</b>			
CE-259	1-VS004	2-VS013	
CE-263	1-VS004	2-VS013	



# RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios  
(Continued)

Make and Model	RCA Battery			Make and Model	RCA Battery		
	A	AB	B		A	AB	B
<b>Emerson (cont'd)</b>				<b>Emerson (cont'd)</b>			
CE-265	1-VS004	2-VS013		432	1-VS036	1-VS016	
CE-275	1-VS004	2-VS013		505	2-VS067	2-VS013	
CT-275	1-VS004	2-VS013		508	1-VS036	1-VS016	
CX-263	1-VS004	2-VS013		523	2-VS067	2-VS013	
CX-283	1-VS004	2-VS013		536	2-VS067	2-VS013	
CX-284	1-VS004	2-VS013		536A	2-VS067	2-VS013	
CX-292	1-VS004	2-VS013		551A	2-VS067	2-VS013	
CX-305	2-VS067	2-VS013		553A	2-VS067	2-VS013	
CX-308	1-VS004	2-VS013		558	2-VS036	1-VS016	
DA-338	2-VS067	2-VS013		559A	1-VS067	1-VS016	
DC-308	2-VS067	2-VS013		559AA	1-VS067	1-VS090	
DF-302	2-VS067	2-VS013		560	1-VS067	1-VS016	
DF-306	2-VS067	2-VS013		560A	1-VS067	1-VS090	
DJ-310	2-VS067	2-VS013		567	1-VS067	1-VS090	
DJ-311	2-VS067	2-VS013		568A		1-VS019	
DJ-312	2-VS067	2-VS013		570	3-VS036	1-VS016	
DU-379	2-VS036	1-VS016		574	3-VS036	1-VS016	
DU380	2-VS036	1-VS016		575		1-VS019	
EA312	2-VS067	2-VS013		575A		1-VS019	
EA338	2-VS067	2-VS013		580	3-VS036	1-VS016	
EA357A	2-VS067	2-VS013		584	1-VS068	1-VS090	
EA385	2-VS067	2-VS013		613A	1-VS036	1-VS016	
EA389	2-VS067	2-VS013		640	1-VS036	1-VS016	
EA402	2-VS067	2-VS013		643A	2-VS067	2-VS013	
EA1341	2-VS067	2-VS013		645	1-VS069	1-VS016	
EE390	2-VS067	2-VS013		646A	1-VS072	1-VS090	
EE401	2-VS067	2-VS013		646B	1-VS072	1-VS090	
EF363	2-VS067	2-VS013		656B		1-VS019	
FU424	2-VS067	2-VS013		657B		1-VS019	
FU427	2-VS067	2-VS013		704	2-VS236	1-VS216	
FU428	2-VS067	2-VS013		705	2-VS236	1-VS216	
FF411	2-VS036	1-VS016		745B		1-VS057W	
33	2-VS067	2-VS013		746B		1-VS057W	
34	2-VS067	2-VS013		747	1-VS035	1-VS086	
302	2-VS067	2-VS013		754		1-VS057W	
338	2-VS067	2-VS013		754D		1-VS057W	
339	2-VS067	2-VS013		790B	1-VS072	1-VS090	
340	2-VS067	2-VS013		801	2-VS236	1-VS216	
341	2-VS067	2-VS013					
357	2-VS067	2-VS013		<b>Fada</b>			
363	2-VS067	2-VS013		P80	2-VS036	1-VS016	
401	2-VS067	2-VS013		P82	2-VS067	2-VS013	
402	2-VS067	2-VS013		P100	2-VS067	2-VS013	
424	2-VS067	2-VS013		P111	3-VS036	1-VS016	
427	2-VS067	2-VS013		P130	2-VS002	2-VS013	
428	2-VS067	2-VS013					

# RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios  
(Continued)

Make and Model	RCA Battery			Make and Model	RCA Battery		
	A	AB	B		A	AB	B
<b>Firestone</b>				<b>General Electric (cont'd)</b>			
4C22	2-VS236	1-VS216		145	2-VS036	1-VS016	
4C24		1-VS019		150		1-VS019	
				165		1-VS019	
<b>Garod</b>				254	2-VS067	2-VS013	
4B1	3-VS036	1-VS016		600		1-VS057W	
5D3	5-VS036	1-VS016		601		1-VS057W	
5D4	5-VS036	1-VS016		602		1-VS057W	
5D5	5-VS036	1-VS016		603		1-VS057W	
6E1	2-VS002	2-VS013		604		1-VS057W	
<b>General Electric</b>				605	1-VS065	1-VS016	
GB400	1-VS004	2-VS013		606	1-VS065	1-VS016	
GB440	1-VS004	2-VS013		607	1-VS065	1-VS016	
HB401	1-VS004	2-VS013		608	1-VS065	1-VS016	
HB402	1-VS004	2-VS015		610		1-VS057W	
HB403	1-VS004	2-VS015		611		1-VS057W	
HB408	1-VS004	2-VS013		612	1-VS065	1-VS016	
HB410	1-VS004	2-VS015		613	1-VS065	1-VS016	
HB411	1-VS004	2-VS015		614		1-VS019	
HB412	1-VS011	2-VS013		615		1-VS019	
HB504	1-VS010	2-VS013		620	2-VS236	1-VS217	
HB505	1-VS010	2-VS013		621	2-VS236	1-VS217	
HB508	1-VS010	2-VS013		622	2-VS236	1-VS217	
HBX467	1-VS004	2-VS015		625	1-VS065	1-VS016	
JB410	2-VS036	1-VS016		626	1-VS065	1-VS016	
JB508	1-VS011	2-VS013		630	2-VS236	1-VS016	
JB513	1-VS011	2-VS013		631	2-VS236	1-VS016	
JB514	1-VS011	2-VS013		632	2-VS236	1-VS016	
JB523	1-VS011	2-VS013		640		1-VS019	
JB524	1-VS011	2-VS013		641		1-VS019	
JB630	2-VS067	2-VS013		650		1-VS019	
JB631	2-VS067	2-VS013		<b>Gilfillan</b>			
LB412	2-VS036	1-VS016		5L-66B Series		1-VS019	
LB502	2-VS036	1-VS016		688D		1-VS019	
LB603	2-VS036	1-VS016		<b>Globe</b>			
LB612	2-VS036	1-VS016		454	2-VS036	1-VS016	
LB641	2-VS036	1-VS016		456	2-VS036	1-VS016	
LB642	2-VS036	1-VS016		<b>Grantline</b>			
LB673	2-VS067	2-VS013		508-7	5-VS036	1-VS016	
LB700	2-VS067	2-VS013		<b>Hallicrafters</b>			
LB701	2-VS067	2-VS013		S72		1-VS019	
LB702	2-VS067	2-VS013		S-72-1950		1-VS019	
LB703	2-VS067	2-VS013		S72L		1-VS019	
140	2-VS036	1-VS016		5R24	1-VS065	1-VS090	
141		1-VS057W					
143		1-VS057W					



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For 1948 to 1955 Portable Radios

(Continued)

Make and Model	RCA Battery		
	A	AB	B
<b>Hallicrafters (cont'd)</b>			
5R40	1-VS065		1-VS090
SR1000		1-VS058	
TW25	1-VS065		1-VS090
TW500		1-VS058	
TW600		1-VS058	
TW1000		1-VS047	
TW2000		1-VS047	
<b>Jewel</b>			
304	1-VS036		1-VS016
349	1-VS065		1-VS090
801	1-VS036		1-VS016
814	1-VS036		1-VS016
901	1-VS036		1-VS016
949	1-VS065		1-VS090
5007	1-VS065		1-VS016
5010	1-VS065		1-VS016
5050	1-VS065		1-VS090
5310	2-VS236		1-VS216
<b>Knight</b>			
4D450	3-VS036		1-VS016
4J707	1-VS065		1-VS090
4J708	2-VS067		2-VS013
4K717	2-VS236		1-VS216
5C290	2-VS067		2-VS013
5D455	5-VS036		1-VS016
5F565	2-VS036		1-VS016
6A127	2-VS067		2-VS013
6K718	2-VS067		2-VS013
145-D	5-VS036		1-VS016
156-D	3-VS036		1-VS016
449		1-VS019	
<b>Learadio</b>			
RM402C		1-VS019	
<b>Lewyt</b>			
711	2-VS002		2-VS013
<b>Magitone</b>			
510	1-VS036		1-VS016
<b>Majestic</b>			
4L1	2-VS236		1-VS217
4P1	2-VS036		1-VS090
5M1	1-VS236		1-VS218

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Make and Model	RCA Battery		
	A	AB	B
<b>Meck</b>			
CM500	5-VS036		2-VS055
DM700	4-VS036		1-VS016
EV760	4-VS036		1-VS016
<b>Mitchell</b>			
1256	1-VS067		1-VS090
1276	1-VS067		1-VS090
1277	1-VS067		1-VS090
<b>Mitchell Industries</b>			
AT-92-50	2-VS036		2-VS016
(Airboy Sr.)			
1276	1-VS067		1-VS090
1277	1-VS067		1-VS090
1287		1-VS019	
<b>Motorola (Galvin)</b>			
A1	2-VS036		1-VS016
AR-96-23	2-VS036		1-VS016
AT-99-22	1-VS009		2-VS013
3A5	5-VS036		1-VS016
5A1	2-VS036		1-VS016
5A5	2-VS036		1-VS016
5A7	2-VS036		1-VS016
5A7A	2-VS036		1-VS016
5A9 Series	2-VS036		1-VS016
5J1	2-VS036		1-VS016
5J1U	2-VS036		1-VS016
5L1	2-VS036		1-VS016
5L1U	2-VS036		1-VS016
5M1	2-VS036		1-VS016
5M1U	2-VS036		1-VS016
5M2	2-VS036		1-VS016
5M2U	2-VS036		1-VS016
6L1		1-VS019	
6L2		1-VS019	
41D	1-VS004		2-VS013
41D1	1-VS004		2-VS013
41D2	1-VS004		2-VS013
41H	1-VS004		2-VS013
48L11	2-VS036		1-VS016
49L11Q	2-VS036		1-VS016
49L13Q	2-VS036		1-VS016
51D	1-VS004		2-VS013
51M1U	2-VS036		1-VS016
51M2U	2-VS036		1-VS016

Make and Model	RCA Battery		
	A	AB	B
<b>Motorola (Galvin) (cont'd)</b>			
51D1	1-VS004		2-VS013
51D2	1-VS004		2-VS013
51F	1-VS004		2-VS015
52D	1-VS004		2-VS013
52D1	1-VS004		2-VS013
52L	2-VS236		1-VS216
52M Series	2-VS036		1-VS016
53LC1	2-VS236		1-VS216
53LC2	2-VS236		1-VS216
53LC3	2-VS236		1-VS216
54L1	2-VS036		1-VS216
54L2	2-VS036		1-VS216
54L3	2-VS036		1-VS216
54L4	2-VS036		1-VS216
54L5	2-VS036		1-VS216
54L6	2-VS036		1-VS216
57BP	2-VS067		2-VS013
57BP1	2-VS067		2-VS013
57BP1A	2-VS067		2-VS013
57BP2	2-VS067		2-VS013
57BP2A	2-VS067		2-VS013
57BP3	2-VS067		2-VS013
57BP3A	2-VS067		2-VS013
57BP4	2-VS067		2-VS013
57BP4A	2-VS067		2-VS013
58L11	2-VS036		1-VS016
59L11Q	2-VS036		1-VS016
59L12Q	2-VS036		1-VS016
59L14Q	2-VS036		1-VS016
61-L11	2-VS067		2-VS013
61-L12	2-VS067		2-VS013
62L1U		1-VS057W	
62L2U		1-VS057W	
62L3U		1-VS057W	
63L1		1-VS057W	
63L2		1-VS057W	
63L3		1-VS057W	
63L5S		1-VS057W	
65BP	2-VS067		2-VS013
65BP1	2-VS067		2-VS013
65BP1A	2-VS067		2-VS013
65BP2	2-VS067		2-VS013
65BP2A	2-VS067		2-VS013
65BP3	2-VS067		2-VS013
65BP3A	2-VS067		2-VS013
65BP4	2-VS067		2-VS013

Make and Model	RCA Battery		
	A	AB	B
<b>Motorola (Galvin) (cont'd)</b>			
65BP4A	2-VS067		2-VS013
65L11	2-VS067		2-VS013
65L12	2-VS067		2-VS013
67L11		1-VS019	
68L11		1-VS019	
69L11		1-VS019	
<b>Norelco Philips</b>			
LX422AB	2-VS036		2-VS016
LX527AB	7-VS036		2-VS015
<b>Olympic</b>			
6-606	2-VS067		2-VS013
6-606A	2-VS067		2-VS013
6-606U	2-VS067		2-VS013
7-526	2-VS067		2-VS013
8-451	1-VS036		1-VS016
8-452	2-VS036		1-VS016
9-452	2-VS002		2-VS013
445	2-VS236		1-VS217
489	1-VS036		1-VS016
<b>Philco</b>			
B650	2-VS236		1-VS217
B652	2-VS236		1-VS217
PT-87		1-VS038	
PT-88		1-VS038	
39-71T	1-VS004		2-VS013
39-72T	1-VS004		2-VS013
39-73T	1-VS004		2-VS013
39-74T	1-VS004		2-VS013
39-75		1-VS053	
39-504T	1-VS004		2-VS013
40-PT63		1-VS053	
40-74T	1-VS004		2-VS013
40-504T	1-VS004		2-VS013
41-PT63		1-VS053	
41-841		1-VS019	
41-842T	2-VS067		2-VS013
41-843T	2-VS067		2-VS013
41-844T	2-VS067		2-VS013
41-851		1-VS019	
41-853T	2-VS067		2-VS013
41-854T	2-VS067		2-VS013
41-8030		1-VS022	
42-PT-87		1-VS038	



# RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios  
(Continued)

Make and Model	RCA Battery		
	A	AB	B
<b>Philco (cont'd)</b>			
42-PT-88	1-VS038		
42-842	2-VS067	2-VS013	
42-843	2-VS067	2-VS013	
42-844	2-VS067	2-VS013	
42-853	2-VS067	2-VS013	
42-854	2-VS067	2-VS013	
46-350	1-VS019		
46-131	1-VS022		
48-150	1-VS022		
48-300	1-VS019		
48-360	1-VS019		
48-601	1-VS057W		
48-602	1-VS057W		
49-101	1-VS019		
49-601	1-VS057W		
49-602	1-VS057W		
49-605	1-VS019		
49-607	1-VS019		
50-620	1-VS057W		
50-621	1-VS057W		
51-629	1-VS064		
51-631	2-VS036	1-VS016	
52-643	1-VS057W		
53-650	2-VS236	1-VS217	
53-651	2-VS036	1-VS016	
53-652	2-VS236	1-VS217	
53-656	1-VS057W		
53-658	1-VS057W		
<b>Philips</b>			
See Norelco Philips			
<b>Philmore Kit</b>			
300-3	1-VS072	1-VS090	
<b>Radiette</b>			
PR-2	3-VS036	1-VS016	
<b>RCA</b>			
AVR102	2-VS067	2-VS013	
BP10	1-VS036	1-VS016	
BP55	1-VS011	2-VS013	
BP56	1-VS011	2-VS013	
BP85	1-VS011	2-VS013	
BX6	1-VS019		
BX55	1-VS050		

Make and Model	RCA Battery		
	A	AB	B
<b>RCA (cont'd)</b>			
BX57	1-VS050		
B411	1-VS036	1-VS016	
P5	1-VS004	2-VS013	
QB55	1-VS022		
QB55X	1-VS022		
QB60	1-VS022		
2B400	2-VS236	1-VS216	
2B401	2-VS236	1-VS216	
2B402	2-VS236	1-VS216	
2B403	2-VS236	1-VS216	
2B404	2-VS236	1-VS216	
2B405	2-VS236	1-VS216	
2BX63	1-VS057W		
3BX51	1-VS050		
3BX52	1-VS050		
3BX53	1-VS050		
3BX54	1-VS050		
3BX61	1-VS047		
3BX671	1-VS047		
3BX672	1-VS047		
4QB3	1-VS022		
4QB3X	1-VS022		
5BX41	2-VS036	1-VS216	
6B4A	1-VS036	1-VS016	
6B4B	1-VS036	1-VS016	
6B5	1-VS036	1-VS016	
6BX5	2-VS036	1-VS216	
6BX6A	2-VS036	1-VS216	
6BX6B	2-VS036	1-VS216	
6BX6C	2-VS036	1-VS216	
6BX8A	1-VS050		
6BX8B	1-VS050		
6BX41A	2-VS036	1-VS216	
6BX41B	2-VS036	1-VS216	
6BX63	1-VS057W		
8BX5	1-VS050		
8BX6	1-VS019		
8BX54	1-VS050		
8BX55	1-VS050		
8B41	1-VS036	1-VS016	
8B42	1-VS036	1-VS016	
8B43	1-VS036	1-VS016	
8F43	1-VS022		
9BX5	1-VS050		
9BX6	1-VS019		
9BX55	1-VS050		

# RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios  
(Continued)

Make and Model	RCA Battery		
	A	AB	B
<b>RCA (cont'd)</b>			
9BX56	1-VS065	1-VS016	
15BP			
Series	1-VS004	2-VS013	
25BP	1-VS004	2-VS013	
26BP	2-VS067	2-VS013	
36BP	2-VS067	2-VS013	
54B1	1-VS036	1-VS016	
54B1-N	1-VS036	1-VS016	
54B2	1-VS036	1-VS016	
54B3	1-VS036	1-VS016	
54B5	1-VS036	1-VS016	
55F	1-VS022		
58B	1-VS036	1-VS016	
64F1	1-VS022		
64F2	1-VS022		
64F3	1-VS022		
65F	1-VS022		
66BX	1-VS019		
94BP4	1-VS004	2-VS013	
94BP61	1-VS004	2-VS013	
94BP62	1-VS004	2-VS013	
94BP64	1-VS004	2-VS013	
94BP66	1-VS004	2-VS013	
94BP80	1-VS004	2-VS013	
94BP81	1-VS004	2-VS013	
96GA	1-VS004	2-VS013	
<b>Raytheon</b>			
PR51	1-VS065	1-VS090	
PR51A	1-VS065	1-VS090	
PR52	1-VS065	1-VS090	
<b>Regal</b>			
BP47	1-VS036	1-VS016	
BP48	1-VS036	1-VS016	
P-175	2-VS002	2-VS013	
747	5-VS036	1-VS016	
777	5-VS036	1-VS016	
1500	1-VS022		
1877	1-VS002	1-VS016	
1878	1-VS067	1-VS016	
<b>Remier</b>			
93	1-VS004	2-VS015	
94	1-VS004	2-VS015	
95	1-VS004	2-VS015	
5400	5-VS036	1-VS016	
5410	5-VS036	1-VS016	

Make and Model	RCA Battery		
	A	AB	B
PP5461	5-VS036	2-VS055	
<b>Revere</b>			
400	1-VS065	1-VS016	
<b>Roland</b>			
4P2	2-VS035	1-VS216	
5P2	1-VS057W		
5P4	1-VS057W		
6P2	1-VS057W		
<b>Sentinel</b>			
IU312PG	1-VS067	1-VS090	
IU312PW	1-VS067	1-VS090	
IU316PM	1-VS067	1-VS016	
IU316PT	1-VS067	1-VS016	
IU335PG	1-VS067	1-VS090	
IU335PI	1-VS067	1-VS090	
IU335PM	1-VS067	1-VS090	
IU335PW	1-VS067	1-VS090	
285P	2-VS067	2-VS013	
312P	5-VS036	2-VS055	
312PG	1-VS067	1-VS090	
312PW	1-VS067	1-VS090	
316P	1-VS067	1-VS016	
319P	1-VS067	1-VS090	
326P	2-VS036	1-VS016	
335PG	1-VS067	1-VS090	
335PI	1-VS067	1-VS090	
335PM	1-VS067	1-VS090	
335PW	1-VS067	1-VS090	
345-P	1-VS002	1-VS090	
347P	2-VS036	1-VS216	
348P	1-VS067	1-VS090	
<b>Setchell-Carlson</b>			
447	1-VS019		
449	1-VS019		
501	3-VS036	1-VS013	
<b>Signal</b>			
141	1-VS036	1-VS055	
341A	1-VS067	1-VS016	
<b>Silvertone (Sears)</b>			
210	2-VS036	1-VS016	
215	2-VS036	1-VS016	
220	1-VS019		
225	1-VS019		



# RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios  
(Continued)

Make and Model	RCA Battery		
	A	AB	B

## Westinghouse (cont'd)

423P4	2-VS236	1-VS217
424P4	2-VS236	1-VS217
425P4	2-VS236	1-VS217

## Zenith

G500	1-VS047	
G503	1-VS058	
H412T	1-VS045	
H500	1-VS047	
H503	1-VS058	
J402	1-VS058	
J504	1-VS058	
J504Y	1-VS058	
K401 Series	3-VS036	1-VS016
L401	3-VS036	1-VS216
L403 Series	2-VS236	1-VS216
L406R	1-VS058	
L505	1-VS059	
L507	1-VS058	
L600	1-VS070	1-VS047

Make and Model	RCA Battery		
	A	AB	B

## Zenith (Cont'd)

4G800	1-VS036	1-VS016
4G903	1-VS058	
4G903Y	1-VS058	
4G908	1-VS058	
4K400	1-VS004	2-VS013
4K400D	1-VS004	2-VS013
4K400L	1-VS004	2-VS013
4K400M	1-VS004	2-VS013
4K400S	1-VS004	2-VS013
4K400Y	1-VS004	2-VS013
4K600	2-VS036	1-VS016
5G500	1-VS046	
5G500R Series	1-VS047	
5G501	1-VS047	
5G504	1-VS046	
5K603	1-VS046	
6G001Y	1-VS047	
6G004Y	1-VS047	
6G801	1-VS058	
401	1-VS058	
5416	1-VS004	2-VS013

# RCA MINIATURE LAMPS

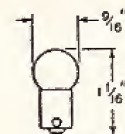
## FLASHLIGHT TYPES

Type No.	Volts	Filament Amps.	Bulb Outline*	Bead Color	Use with RCA Battery
PR-2	2.4	0.50	F	Blue	VS036 (Two)
PR-3	3.6	0.50	F	Green	VS036 (Three)
PR-6	2.5	0.30	F	Brown	VS036 (Two)
I3	3.8	0.30	C	Green	VS036 (Three)
I4	2.5	0.30	C	Blue	VS036 (Two)
112	1.1	0.22	B	Pink	VS034 (One)
222	2.2	0.25	B	White	VS034 (Two)
233	2.3	0.27	C	Purple	VS035 (Two)

## RADIO PANEL AND MISCELLANEOUS TYPES

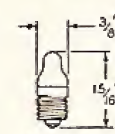
Type No.	Volts	Filament Amps.	Bulb Outline*	Bead Color	Service
40	6 to 8	0.15	E	Brown	Radio Panel
41	2.5	0.50	E	White	Radio Panel
42	3.2	0.35	E	Green	Radio Panel
43	2.5	0.50	D	White	Radio Panel
44	6 to 8	0.25	D	Blue	Radio Panel
45	3.2	0.35	D	Green	Radio Panel
46	6 to 8	0.25	E	Blue	Radio Panel
47	6 to 8	0.15	D	Brown	Radio Panel
48	2.0	0.06	E	Pink	Radio Panel
49	2.0	0.06	D	Pink	Radio Panel
50	6 to 8	1-candle power	C	White	Radio Panel
51	6 to 8	1-candle power	G	White	Radio Panel
55	6 to 8	2-candle power	A	White	Test Instrument
291	2.9	0.17	E	White	Radio Panel
292	2.9	0.17	E	White	Pin-Game Machine
1490	3.2	0.16	D	White	Radio Panel

## \*DIMENSIONAL OUTLINES



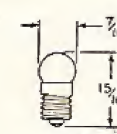
C-4 1/2 BULB  
MINIATURE BAYONET BASE

A



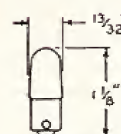
TL-3 BULB  
MINIATURE SCREW BASE

B



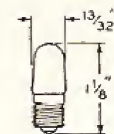
G-3 1/2 BULB  
MINIATURE SCREW BASE

C



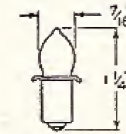
T-3 1/4 BULB  
MINIATURE BAYONET BASE

D



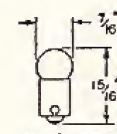
T-3 1/4 BULB  
MINIATURE SCREW BASE

E



B-3 1/2 BULB  
MINIATURE FLANGE BASE

F



G-3 1/2 BULB  
MINIATURE BAYONET BASE

G



## RCA TELEVISION COMPONENTS

- Deflecting Yokes
- Horizontal-Output and High-Voltage Transformers
- Blocking-Oscillator Transformers
- Vertical-Output Transformers
- Ion-Trap Magnets
- Linearity and Width Controls
- Focus Coils
- Power Transformers
- Conversion Kit

### DEFLECTING YOKES (For Use with Kinescopes)

Horizontal Coil Inductance mh	Vertical Coil DC Resistance ohms	Deflection Angle degrees	RCA Type
8.3	64.6	57	201D12
8.4	68	57	207D1
10.3	48.7	70	206D1
12	42	90	237D1†
12.5	68.8	57	205D1
13.3	48	70	209D1
13.3	48	70	211D2*
18.5	44	90	235D1*
18.5	48	70	222D1*
20	42	90	236D1*
28.5	3.3	70	214D1*

†Supplied with damping and neutralizing elements.

\*Supplied with color-coded leads, damping and neutralizing elements.

### DEFLECTING YOKES (For use with Camera Tubes)

Horizontal Coil Inductance mh	Typical Tube Type	RCA Type
0.9	6198, 6326	216D1
5.5	5820	210D1
5.5	2F21, 1699	201D77
8.0	5WPI5, 5ZPI6	212D1

### HORIZONTAL-OUTPUT AND HIGH-VOLTAGE TRANSFORMERS

DC Output (No Load) Kv	For Typical Yoke		RCA Type
	Deflection Angle degrees	Horizontal Coil Inductance mh	
8.75	57	8.3	211T3*
9	57	8.3	211T1*
14	70	13.3	224T1†
10 to 15	50-70	8 to 30	231T1*†
10 to 16	50-70	8 to 30	232T1†
18	70	13.3	230T1†
18	90	12	235T1†
33	57	8	211T2†

\*Isolated-secondary type

†Autotransformer type

‡Universal type

§For projection kinescopes

### HORIZONTAL-OUTPUT TRANSFORMER

For Camera Tube Types	RCA Type
6198, 6326	233T1

### HORIZONTAL LINEARITY CONTROLS

Inductance Range		RCA Type
Minimum mh	Maximum mh	
0.55	2.3	201R5
1.3	4.1	209R1
1.5	8.3	213R1
5.5	20	201R3

### WIDTH CONTROLS

Inductance Range		RCA Type
Minimum mh	Maximum mh	
0.05	0.245	201R1
0.08	0.24	201R2
0.17	0.61	201R4
0.47	1.7	206R1
0.5	1.7	208R1
1.65	9.2	211R1
1.75	10.5	214R1*
2.9	16	212R1
3.9	22	215R1

\*Has tapped secondary winding for AGC/AFC operation.

### ION-TRAP MAGNETS

Description	RCA Type
Do ble-pole, field-coil type. Dc current rating, 200 ma.	203D1
"Universal" Double/Single pole permanent-magnet type. Employs 3 ring-shaped magnets for use in double-pole applications. Can be used in single-pole applications by removing the small ring-shaped magnet. Field strength; large magnet, 55 gauss; small magnet, 15 gauss.	203D3



## HORIZONTAL-OSCILLATOR AND SYNC-STABILIZER COILS

Description	RCA Type
6-terminal phase discriminator for 630-type receivers.	208T8
3-terminal center-tapped oscillator coil for synchro-guide circuits.	203R1
4-terminal oscillator coil for synchro-guide circuits.	205R1

## VERTICAL-OUTPUT TRANSFORMERS

Turns Ratio Primary to Secondary	DC Resistance Primary ohms	RCA Type
3:1	700	234T1
10:1	521	204T9
10:1	590	204T2
11.4:1	1200	222T1
18:1	1600	226T1*

\*Auto-transformer.

## VERTICAL-BLOCKING-OSCILLATOR TRANSFORMERS

Turns Ratio Primary to Secondary	DC Resistance		RCA Type
	Primary ohms	Secondary ohms	
1:4.2	244	1310	208T2
1:4.2	244	1310	208T9
1:4.2	208	1060	209T1

## HORIZONTAL-BLOCKING-OSCILLATOR TRANSFORMERS

Turns Ratio Primary to Secondary	DC Resistance		RCA Type
	Primary ohms	Secondary ohms	
1:2	3.5	8.5	208T1
1:2	3.5	8.5	208T3

## POWER TRANSFORMERS (117 VOLTS, 60 CPS)

SECONDARY WINDINGS									
Primary Winding Current amps	Plate Winding		Filament No. 1		Filament No. 2		Filament No. 3		RCA Type
	Full-Load Voltage volts	Max. DC Current amps	Voltage volts	Current amps	Voltage volts	Current amps	Voltage volts	Current amps	
2.20	770/385	0.230	5	3	6.3	9.0	5.0	2.0	201T7
2.18	720/360	0.250	5	3	6.3	8.0	5.0	2.0	201T8*
2.48	730/365	0.260	5	6	6.3	8.85	5.0	2.0	201T9
2.48	730/365	0.260	5	6	6.3	8.85	6.3	1.2	201T10

\*Type 201T8 has an additional filament winding: 6.3 volt @ 0.6 ampere.

## FOCUSING AND ALIGNMENT COILS

DC Resistance ohms	DC Current ma	For Kinescopes or Camera Tubes		RCA Type
		Typical Types		
140	40	6198, 6326		218D1*
150	30	5820, 5826		204D75*
247	120	108P4-A, 12LP4-A		202D1
385	60	6198		217D1
2000	75	5820, 5826		202D75

\*Alignment coils



## RCA SPEAKERS

- Alnico V magnets used for all PM types.
- Rugged mechanical construction with welded housing assembly.
- Finest quality moisture-resistant cone and voice-coil suspension assures high efficiency and dependability.
- Dust-sealed construction.
- RETMA mounting standards are followed.
- Electroplated pot and frame to provide ample resistance to rust and corrosion.

### PERMANENT-MAGNET TYPES

Size inches	Voice-Coil Impedance ohms	Alnico V Magnet Weight ounces	Power Rating watts	RCA Type
2 3/4	12.	1.0	0.250	222S1
2 x 3	12.	1.0	0.125	214S1
3	3.2	1.0	2	216S1
3	3.2	1.47	2	231S1
4	3.2	0.68	3	223S1
4	3.2	1.0	3	304S2
4	3.2	1.47	3	404S2
4 x 6	3.2	0.68	3	246S2
4 x 6	3.2	1.0	3	227S1
4 x 6	3.2	1.47	3	446S2
5	3.2	0.68	3	205S2
5	3.2	1.0	3	228S1
5	3.2	1.47	3	405S2
5 3/4	3.2	1.0	4	217S1
5 x 7	3.2	1.47	6	257S1
5 x 7	3.2	2.15	6	233S1
5 x 7	3.2	3.16	7	232S1
6 1/2	3.2	1.0	4	229S1
6 1/2	3.2	1.47	5	224S1
6 1/2	3.2	3.16	6	230S1
6 x 9	3.2	2.15	8	238S1
6 x 9	3.2	2.33	8	235S1
8	3.2	2.15	8	208S2
8	6-8	2.15	8	208S4

## RCA SPEAKERS

### PERMANENT-MAGNET TYPES (cont'd)

Size inches	Voice-Coil Impedance ohms	Alnico V Magnet Weight ounces	Power Rating watts	RCA Type
8	3.2	3.16	8	225S1
8	3.2	6.8	9	234S1
10	3.2	2.15	7	236S1
10	3.2	3.16	8	237S1
10	6-8	6.8	10	215S1
12	3.2	2.15	12	112S1
12	3.2	2.9	12	226S1
12	3.2	6.8	12	412S6
12	6-8	6.8	12	412S7

### FIELD-COIL TYPES

Size inches	Voice-Coil Impedance ohms	FIELD-COIL		Power Rating watts	RCA Type
		DC Resistance, ohms	Current ma		
4 x 6	3.2	450	65	3	746S1
5	3.2	450	65	3	705S1
6 x 9	3.2	6	1000	8	869S1
12	3.2	1000	70	12	712S2

### HIGH FIDELITY SPEAKER

Size inches	Frequency Response cps	Resonant Frequency cps	Voice-Coil Impedance ohms
12	40 to 16000	55 to 65	8
Alnico V Magnet Weight ounces		Power Rating watts	RCA Type
14		8	502S1



## RCA SELENIUM RECTIFIERS

RCA Selenium Rectifiers are designed for general replacement use in TV, radio receivers, and phonographs. Advanced design, select raw materials, and superior workmanship make RCA Selenium Rectifiers a dependable line for virtually all service jobs.

- Smaller size . . . for any given current, they are smaller than other types.
- Quicker installation . . . integral mounting stud.
- Wide-open design . . . insures maximum heat dissipation, cooler operation . . . no center "hot spots."
- Rigid construction . . . for rugged service.

Max. Output ma	Max. Input volts	RCA Type	Min. Series Resistance ohms
65	130	205GI	33
75	130	200GI	22
100	130	206GI	22
150	130	201GI	15
200	130	207GI	5
250	130	208GI	5
300	130	202GI	5
350	130	209GI	5
400	130	203GI	5
500	130	204GI	5
400*	130	210GI	5
500*	130	211GI	5

\*Special thin types for use where available space will not permit use of type 203GI or 204GI.

## Junior VoltOhmyst\*, RCA WV-77A



The RCA Junior VoltOhmyst embodies all the features of its famous predecessor plus many new extras. Using the reliable VoltOhmyst bridge circuit, a sensitive 200-microampere meter movement, and 1% carbon-film multiplier resistors, the all-electronic WV-77A incorporates features found only in more expensive instruments. As a DC Voltmeter, it measures from 0.05 volt to 1200 volts in five ranges . . . even

in presence of ac. Less than 2- $\mu$ f input capacitance with 11-megohm input makes the WV-77A invaluable for dc measurements in AVC, oscillator, and other high-impedance circuits. As an AC Voltmeter, the WV-77A measures from 100 millivolts to 1200 volts (rms) in five ranges. High ac-input impedance of vacuum-tube diode signal rectifier permits use in many varied rf applications. Frequency range flat within 1 db from 30 cps to 3 Mc, depending on source impedance and voltage range setting 50 kc to 250 Mc when used with WG-264 probe. As a wide-range Ohmmeter, the WV-77A measures resistance from 0.2 ohm to 1-billion ohms in five ranges. Danger of burnout of low-current devices such as battery-tube filaments is minimized by use of 1.5-volt battery. Meter is electronically protected against burnout on all functions.

### Plus These New Extras

- Zero-centering facilities for discriminator alignment.
- DC polarity reversing switch eliminates need for test-lead switching.
- Ohms probe always positive for quick check of electrolytic capacitors.
- Degenerative bridge circuit provides freedom from line voltage changes.
- Completely shielded metal case for stability in rf fields and extra protection.

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